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LIQUIDITY, ASSET UTILIZATION, DEBT RATIO AND FIRM PERFORMANCE: EVIDENCE FROM EGYPT

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3	RATIO AND FIRM PERFORMANCE:
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22	Abstract How well firms handle liquidity and asset utilization determines
23	their development, performance, and survival. Different liquidity and asset
24	utilization methods impact firms' bottom lines. While most studies have
25	studied the influence of liquidity and asset utilization on performance
20 27	independently, this research tests both factors using debt ratio as a modisting variable. The investigation used secondary data from 50 Equation
27 28	listed firms' annual reports from 2019-2021 Data were analyzed using
29	descriptive statistics, correlation, and regression. The study indicated that
30	using tangible assets and current assets (liquidity) affected corporate
31	performance. The debt ratio does not affect asset utilization, liquidity, and
32	company performance. This study may assist management and financial
33	experts in examining the company's growth characteristics, liquidity and
34	asset utilization, business risk, and financial performance to anticipate its
36	future worth.
37	Keywords:-
38	Liquidity, Asset utilization, Debt ratio, Firm performance, Quick ratio,
39	Total asset turnover, and Return on equity (ROE).

40 JEL Codes: M41

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41 **Introduction:**

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43 Liquidity refers to the availability of cash or its equivalents in an 44 organization to meet its operating needs and financial obligations in the short term. Also, besides the liquidity organization need to utilize their 45 46 usage for assets in a good way. As asset utilization assesses how much 47 each asset can generate and how much it produces. Assets disutilization, on the other hand, refers to income that is lost because of the 48 49 inefficient use of assets as a percentage of total investment. Patin (2021) 50 noted that the disutilization of assets may result in higher agency costs 51 since managers do not operate in the best interests of their employers. 52 Moreover, Mustafa et al. (2019), stated that good asset utilization may increase the firm performance which that will lead to an increase in the 53 54 profit of the organization by increasing the number of investors. Which will lead to a decrease in the debts of the organization as it will have 55 56 more liquidity to pay its obligation. Moreover, organizations need to 57 decrease their debts as it may lead to an increase in liquidity but decrease the firm performance and asset utilization. The debt level of companies 58 59 can be measured through the debt ratio. Debt ratio is a term used to 60 measure the amount of an organization's debt. So, to discover the relationship between liquidity, asset utilization, debt ratio and firm 61 performance the research aims to understand the impact of liquidity and 62 63 asset utilization on firm performance considering debt ratio as a 64 mediating variable.

65 On one hand, bad asset utilization may affect the liquidity of the 66 organizations so which will affect the debt ratio which that may affect 67 the firm performance. On the other hand, bad asset utilization may lead 68 to a decrease in the liquidity of the organization which will lead to an 69 increase in the debt ratio and the increase in debt ratio will decrease the 70 firm performance and make the organization face financial distress or 71 declare bankruptcy.

72 Liquidity demonstrates a firm's ability to repay its short-term 73 liabilities without taking a loan also, Liquid assets are not limited to cash, and they could be in the form of treasury bills, notes, and securities 74 75 including stocks and bonds, in addition to any other asset that could be 76 sold quickly without affecting its market value. As stated by Mustafa et 77 al. (2019), liquidity ratios are used as an indicator to show the 78 conversion of assets into cash. In this study, we measure the effect of 79 liquidity by calculating the current ratio of the selected sample. 80 Additionally, Asset utilization means the firm ability to maximize the 81 use, manage, and leverages its assets to produce ultimate revenue.

83 By practising assets utilization, a firm is efficient with its assets. 84 On the other side of a coin, when a firm doesn't make the maximum 85 benefits form assets, it's considered to have poor asset management. It's highly preferred that assets utilization rate increases which may increase 86 87 the firm performance. Moreover, debt ratio is calculated by dividing total liabilities of firm over total asset. Also, it is the ratio of total debt 88 89 to total asset which it shows the amount of asset that is obtained by using 90 financed debts. Additionally, if the ratio is greater than 1 then that means 91 that the organization have liabilities more than assets. Furthermore, 92 when the ratio increases the risk of organization also increase. Perhaps, this is because the amount of liability is more than the asset which means 93 94 the organization interest rate will increase by a huge way and it may face 95 financial distress. Furthermore, Firm performance is defined as how the 96 organization will use its limited resources and opportunities to achieve 97 its goals without increasing its cost. Furthermore, in the beginning of 98 twenty first century the concept of firm performance began to focus on 99 the ability and capability of the companies to use its available resource 100 s in an efficient way in order to achieve its goals and objectives. Also, 101 the firm performance measured increased by a huge way, but research 102 focus on return on asset (ROA), return on equity (ROE) and net profit 103 margin most of the time (Taouab & Issor, 2019).

104This study contributes to the literature in at least two ways about105the relationship between company liquidity, asset utilization and debt106ratio. First, it concentrates on Egyptian companies, about which only a107few studies have been undertaken recently. This study verifies the108conclusions of earlier researchers by examining the impact of the109moderating role of debt ratio in the relationship between corporate110liquidity and firm performance across the sample firms.

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<u>Literature review</u>

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<u>Liquidity:</u>

117 Financial analysis is used to assess a company's financial 118 standing. Financial ratios are one of the primary instruments of financial analysis; they are valuable indicators of a company's performance and 119 120 financial status. Several studies (Chiaramonte and Casu, 2016) 121 concurred those financial measures, particularly liquidity ratios, may be used as an indication of a business's financial situation and to anticipate 122 123 any potential corporate failures and ensuing bankruptcy. Analysts 124 frequently use liquidity ratios to evaluate a company's financial health.

125 And whether a company is able to continue operating as a going concern. 126 And to act as an indicator of probable financial trouble. This increased 127 emphasis on the company's liquidity status is due to its relevance to all 128 parties involved. Each has a stake in the liquidity situation of a 129 corporation. In this context, Kim-soon et al. (2013) and Delen et al. 130 (2013) found a significant positive link between liquidity ratios and the 131 financial health of businesses. The stronger the firm's financial position, 132 the higher the liquidity ratio. Which indicates the ability of liquidity 133 measurements to predict a company's demise.

Liquidity Current, fast, and cash ratios are typically used to evaluate a company's short-term financial status or solvency. This collection of financial liquidity measures that are routinely used to gauge financial performance El Deeb & Ramadan (2020) has the capacity to forecast bankruptcy, whether employed individually or in various ratio combinations.

140In general, the higher the ratio's value, the higher the company's141short-term loan coverage margin of safety. If the current ratio is more142than or equal to one, a corporation is said to have sufficient liquidity143(Kim-soon et al.,2013). This demonstrates that current assets should be144enough to cover short-term liabilities, and a current ratio below one may145indicate that the organization is experiencing liquidity issues.

146The quick ratio is a far superior indicator of liquidity. This is due147to the fact that current assets such as inventory and prepaid costs, which148are more difficult to convert to cash, are excluded from the ratio149calculation. This indicates that the greater the quick ratio, the more150liquid the company is, allowing it to determine or predict any business151slump (El Deeb & Ramadan, 2020).

152 The liquidity ratio demonstrates the company's capacity to pay 153 down its short-term loans as they mature. As its value increases, so does the company's ability to pay its short-term obligations. Otom, (2014) 154 mentioned that a lower liquidity ratio is indicative of a company's 155 156 financial difficulty. Previous studies concurred that liquidity ratios are 157 one of the most significant categories used to identify firms in financial 158 distress Alifiah (2014); Otom (2014) as they are widely used by 159 investors to measure the risk of their investment Kim-Soon et al. (2013) by screening financially sound companies listed on the stock market. 160 The ratios of liquidity are sometimes known as ratios of short-term 161 162 solvency.

163 Maskami et al. (2022) examined the impact of liquidity and 164 solvency on profitability of organization that listed on the Indonesia 165 stock exchange. Moreover, the researchers have chosen a sample of 166 plantation subsector from period 2017 to 2020. Also, they have chosen their sample using purposive sampling method. Furthermore, they
measured the liquidity using current ratio. Also, they measured the
solvency using debt ratio. Also, the researchers used multiple regression
analysis to know the relation between the variables. Which they found
that there is a huge positive relation between liquidity and profitability
of organizations. Also, there is a positive relation between solvency and
profitability of organizations.

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In addition, to return on assets as an intervening variable, Suhendry et al. (2021) examined the impact of the debt-to-equity ratio (DER) and the current ratio (CR) on firm value. The researchers applied their findings to industrial consumer products businesses listed on the Indonesian stock exchange. The research methodology employed is quantitative. Using the approach of purposive sampling, they selected 20 companies as their sample between 2015 and 2018. Lastly, they discovered that both DER and CR have a considerable beneficial impact on ROA but have no impact on firm value. However, ROA has a favourable effect on the value of a company.

186 In addition, other researchers, such as Pandansari & Khasanah 187 (2020), analyzed the influence of liquidity indicators, profitability ratios, 188 leverage ratios, and operational cash flow in predicting financial crisis in firms. The liquidity ratio, profitability ratio, leverage ratio, and 189 190 operational cash flow are employed as independent factors, whereas 191 financial hardship is used as a dependent variable. In addition, the 192 researcher selected 105 industrial businesses listed on the Indonesia Stock Exchange as a sample (2015-2018). In this study, data were 193 analysed via logistic regression. In addition, the analysis revealed that 194 195 the liquidity and operational cash flow ratios had little influence on predicting financial hardship, however, the profitability and leverage 196 197 ratios had a substantial effect.

198 Gagnier (2022) investigated the effect of debt restructuring 199 using debt to equity swap policy on the financial performance. The researchers used multiple regression model to analyze the data. Their 200 201 sample was PT XYZ Company; they tested it during the period from 2012 till 2018. Eventually, they found that debt to equity swap has a 202 203 significant positive effect on profit margins, total assets turnover, 204 inventory turnover, return on asset, and profit margins. However, it has 205 no significant effect on current ratio and quick ratio.

207Al-Homaidi et al. (2020), examined the influence of Indian listed208businesses' liquidity on their market value. The purpose of this study is

209 to present an empirical examination of the factors affecting the liquidity 210 of Indian listed firms. The ratio of liquid assets to total assets quantifies 211 the liquidity of Indian companies. Moreover, a total of 2154 companies 212 were picked at random from among India's 5129 publicly traded organizations. They use (linear regression with pooling, fixed, and 213 214 random) effect models on a sample of Indian listed enterprises from 215 2010 to 2016. The researchers discovered that the ratio of return on 216 equity is inversely correlated with liquidity. 217

The purpose of this study was to determine the significance of 219 liquidity and solvency risk variables on variances in efficiency indicators of domestic and commercial banks in the United States. The researcher utilized the stochastic cost model with genuine random effect to estimate the relevance of solvency and liquidity risk components. He employed the exponential stochastic cost function and included other variables, such as bank size, crisis as an indicator for financial crises, and the Dodd-Frank Act and Basel II pact as regulatory dummies. From 2005 to 2017, he examined the financial institutions. In conclusion, the researcher discovered that the solvency and liquidity risk variables had a favourable impact on the variance of cost inefficiency metrics. 229 Additionally, it has a detrimental impact on cost-effectiveness measurements (Sakouvogui ,2020).

232 According to Hongli, et al. (2019), they investigated that 233 liquidity and financial leverage have a great impact on the firm's overall 234 performance. Firm performance is measured by ROA and ROE for 235 indicating the extent of increasing the firm's overall profitability as well 236 as using two methods such as fixed effect model and random effect model for modelling. They used "Ghana Stock Exchange" as their 237 238 sample from six different sectors from the year 2007 to 2015. Finally; they found that liquidity, as determined by current assets to current 239 240 liabilities, has a direct positive effect on return on equity.

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Asset utilization:

244 According to Adebayo (2022) asset utilization assesses the difference between what an asset can generate and what it actually 245 246 produces. In contrast, asset underutilization signifies revenue losses 247 related to the inefficient exploitation of assets. Fleming et al. (2005) noted that asset underutilization may raise agency costs if managers do 248 249 not operate in the owners' best interests.

250 A study on Investment in fixed assets and corporate profitability by (Okwo, 2012). The association was shown to be positive, however 252 the conclusion was not statistically significant. Xu and Xu (2013) 253 conducted a study on the best allocation of assets structure and company 254 performance, and their findings demonstrated a statistically significant 255 correlation between assets Structure and business success. In addition, 256 Akinleye & Dadepo (2019); Ogunode & Adegbie (2020) and Waseem 257 & Qamar (2021) found that asset utilization has a substantial impact on 258 the financial success of a company. 259

The study Chauhan. (2021)examined by probable misallocations of working capital among academics, as well as the link between enterprises' working capital and productivity as shown by their valuations. The researcher used a multivariate approach to derive conclusions from the minor effect of working capital and its aspects on company value while accounting for asset utilization. He also stressed out on the importance of asset utilization for organization's profitability and increasing profit. Also, he used a sample of 25 firms from the year 2012 to 2019. found out that despite of accounting for asset utilization, the impact of working capital on firm's value is weak and poor. This research had many limitations so it was suggested that managers should determine working capital allocations in relation to a firm's other assets rather than its sales.

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274 According to Junaid & ali (2020), the purpose of this study is to 275understand the relation between asset utilization and profitability of 276 textile industry in Pakistan. The sample of 10% of population which 277 consist of 40 firms from Pakistan. They taste date using questionnaire 278 by random sampling technique. Moreover, fixed asset turnover ratio and 279 financing costs are used in order to measure the asset utilization. 280 Moreover, they used the sales of organization in order to measure the 281 profitability. The researcher used central tendency test for the arithmetic 282 mean in order to understand the relation between asset utilization and 283 profitability of textile organizations. They found that there is significant 284 positive impact between financing cost and industry profitability. 285 However, there is a negative relation between fixed asset turnover and 286 industry profitability. 287

288 Another study investigates the relationship between liquidity and 289 cash turnover, accounts receivable turnover, and inventory turnover. In 290 addition, the researchers selected a population of real estate, property, 291 and construction companies. In addition, they employed the technique 292 of purposive sampling to choose their samples. The sample consisted of 293 companies listed on the Indonesian stock market between 2013 and 294 2018. In addition, a multiple regression model was utilised to examine 295 the relationship between the variables. They discovered a negative relationship between cash turnover and liquidity, as assessed by the cash 296 297 ratio. While there is a favourable correlation between accounts 298 receivable turnover and an organization's liquidity. Furthermore, 299 inventory turnover and liquidity are positively correlated (Sarpingah, 300 2020). 301

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According to Juliana (2020), the researcher investigated the influence of ownership structure on organizations' asset use. He employed econometric techniques, such as unit root tests and ordinary least square (OLS), to examine the influence of independent factors on the dependent variable. The sample was based on secondary data from six companies that were collected between 2014 and 2019. According to the data, ordinary share, retained profits, the short-term debt ratio, and the long-term debt ratio have a substantial positive influence on return on assets, therefore the ownership structure has a favorable impact on asset utilisation for enterprises during that era.

313 According to Akinleye and Dadepo, (2019). The aim of this 314 study was to investigate the impact of asset utilization the performance of a sample of Nigerian manufacturing firms. To examine the 315 performance of the selected manufacturing companies, this study 316 317 applied correlation and regression analysis. Secondary data was 318 obtained from the annual reports and accounts of 10 selected publicly 319 traded companies throughout a five-year period ranging from 2012 to 320 2016. Moreover, the study showed that asset utilization has a 321 significantly positive impact on the performance of Nigerian 322 manufacturing firms.

324 This study examined the influence of corporate financial 325 performance on corporate growth and asset usage on corporate market 326 value, as defined by Rahayu (2019). This research is an explanation that utilises secondary data to measure many factors. In addition to the 327 328 structural equation model, he analysed reports using purposive sampling 329 and saturation sampling. The sample consisted of 348 Indonesian 330 companies operating between 2011 and 2016. The results indicate that 331 business expansion positively influences market value. It has been 332 demonstrated that asset utilization has a direct positive influence on financial success. Finally, financial success favorably increases themarket value of a company.

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Firm performance:

338 According to Agbata et al., (2021), the purpose of this research 339 is to examine the influence of financial ratios on the performance of listed breweries in Nigeria. The sample for this study consists of thirteen 340 341 brewers listed on the Nigerian stock market from 2010 to 2018. 342 Moreover, the financial ratio calculated using dividend per share and 343 ROE In addition, they evaluated business success based on market 344 valuation. This study relies on secondary data acquired from the selected 345 brewers' financial statements and annual reports. In addition, the 346 pertinent data were examined statistically utilising correlation coefficient, Pearson correlation, and regression analysis. According to 347 348 the primary findings of this study, there is a negative relationship 349 between current ratio and company performance. There is also a favorable correlation between financial ratios and the success of 350 351 Nigerian breweries.

353 According to Susanti et al., the leverage ratio enhances a company's success. The scientists also identified a positive correlation 354 355 between leverage and business performance, which might turn negative 356 if the ideal amount of leverage is surpassed. Therefore, the move from 357 positive to negative suggests that debt has a dual effect on a company's 358 performance. Using the concept of tradeoffs and the cost principle of 359 agencies, this study investigated the relationship between leverage and 360 corporate performance in Malaysia. Between 2005 and 2016, their 361 sample comprised of 528 non-financial firms registered on the Bursa 362 Malaysia Stock Exchange.

364 Mennawi (2020) evaluated the effect of liquidity, credit, and 365 financial leverage risks on the financial performance of Islamic banks in 366 Sudan. The study was mostly based on secondary data sources, and the 367 researcher employed panel datasets from 2008 to 2018. Researchers 368 sampled 13 Islamic banks in Sudan out of a total population of 37 369 Islamic institutions. He utilised quantitative methodology with a 370 longitudinal study design and a balanced panel data estimate. Credit risk 371 and financial leverage have a considerable beneficial impact on the 372 financial performance of Islamic banks in Sudan, however liquidity risk 373 is minor. Although the liquidity risks associated with the ratio of liquid 374 assets to total assets have a substantial favourable impact on financial

performance. This study had some limitations, including a small sample
size (13 institutions out of a total population of 37 banks), the use of
historical data, and factors that did not cover all forms of hazards that
may harm Islamic banks.

According to Fitrianingsih and Huda (2021), the purpose of this study is to evaluate and analyse the effectiveness of the current ratio, the quick ratio, and the cash ratio in measuring financial success. In addition, the type of research employed is descriptive research using quantitative methodologies, and the population in this study consists of financial report data for five years (2015-2019) and a sample size of five years. Finally, they discovered a favourable correlation between the cash ratio and the success of financial firms.

389 According to Kengatharan (2019), this study investigated the 390 between intellectual capital, company performance, link and 391 productivity. Using a self-reported questionnaire, 232 business 392 managers from varied industries, including banking, insurance, 393 telecommunications, and hotels, provided information. The article 394 revealed a significant correlation between intellectual capital and 395 productivity. In addition, the studies revealed a correlation between 396 productivity and firm performance. It was also emphasized that there is a connection between specific components of intellectual capital and 397 productivity-based company success. 398

400 According to Fajaria and Isnalita (2018), the purpose of this study is to quantify the impact of profitability, liquidity, leverage, and 401 402 business growth on the firm's value using debt policy as a moderator. 403 The research analysed 146 companies that were listed on the Indonesian 404 stock exchange between 2014 and 2016. In addition, the sample consists 405 of 108 organisations in 2013, 160 organisations in 2014, 94 406 organisations in 2015 and 2016, respectively. The sample was obtained 407 with the assistance of judgement sample technotes. In addition, Tobins q and market value equity are employed to determine the firm's worth. 408 409 In addition, profitability was assessed by return on assets (ROA), liquidity by current ratio, leverage by debt-to-equity ratio, and dividend 410 policy by dividend policy ratio. The study discovered a positive 411 412 correlation between profitability and business valuation. However, 413 leverage and liquidity had a detrimental impact on the value of the 414 company.

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Waswa et al. (2018) evaluated the effect of liquidity 416 417 management on the performance of businesses. Using a cross-sectional 418 retrospective study approach, they analysed the effect of liquidity on the 419 financial performance of the Kenyan sugar sector. Using a random effect regression model, the researchers examined the association between 420 421 liquidity management and company performance. They selected five 422 Kenyan sugar companies as their sample for a period of twelve years, 423 from 2005 to 2016. The independent variable (liquidity) is assessed by 424 financing liquidity (current liability coverage ratio), whereas the 425 dependent variable (return on assets ratio) is measured by the current 426 liability coverage ratio. They discovered that liquidity, the current 427 liability coverage ratio, and company performance had a negative 428 correlation 429

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Hypotheses development

Liquidity and performance:

434 According to Dimyati et al. (2021), there is a negative relation 435 between quick ratio and firm performance. While there is a strong positive relation between current ratio and firm performance. Also, 436 437 return on asset have positive relation with firm performance. While 438 return on equity have negative relation on the firm performance. The 439 study examined the effect of profitability and liquidity ratio on financial 440 performance at UNILEVER in Indonesia. Moreover, they measured the 441 quick ratio, current ratio, return on equity and return on asset of the 442 financial performance at UNILEVER Indonesia by collecting this data 443 as a secondary data from the financial statements of the firm. Also, they processed the data using multiple liner regression analysis method in 444 445 order to understand the relationship between the variables.

446 Furthermore, Mustafa et al. (2019), found that there is a negative 447 relationship between current ratio and profitability of automobile 448 companies in Pakistan, while there is a positive relationship between 449 profitability and quick ratio. The study aimed to investigate the impact 450 of liquidity on profitability of automobile companies listed in Pakistan 451 stock market. They used random effect model and fixed effect model for 452 the sake of empirical investigation, also the applied Hausman test to 453 choose the appropriate model among random and fixed effect model. 454 They used 12 automobile companies listed in Pakistan stock market as their sample. They used panel data of a period of 5 years from 2013 till 455 456 2017.

458 Finally, they agreeing to Adusei (2022), this research aimed to 459 measure the financial performance of profitability and liquidity of 460 financial firms. AS, profitability ratio reflects the organization ability to generate profit. While the liquidity ratio used to measure the 461 organization ability to pay their debts on time and cover certain 462 liabilities. And working capital considered as the capital needed by the 463 464 company for operation. Moreover, the researchers used quantitative 465 approach and secondary data in order to choose their sample. As, they choose to focus on construction, developing and trading companies. 466 467 Furthermore, they measured the liquidity ratio by calculating current 468 ration, quick ratio, and cash ratio in addition to that, they measure the 469 profitability ratio by calculating the gross profit margin, net profit 470 margin, and rerun on asset and return on equity. Also, the working 471 capital were measured using the working investment method. The 472 research depends on purposive sample technique as they choose 473 construction companies based on the highest number of assets in the 474 Indonesian stock exchange. While the trading and developing 475 companies selected based on the largest revenue from sales and started 476 to be arranged according to the largest number of assets the researchers 477 found that developer companies have better liquidity ratio that 478 construction and trading companies. After calculating working capital, 479 it shows that construction companies need less working capital than 480 other companies.

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482 Other research examined the link between company liquidity and 483 profitability. The liquidity ratio, investment ratio, and capital ratio were used to assess the firm's liquidity, while the return on assets (ROA) and 484 485 net profit margin were used to measure the firm's profitability. This 486 research uses inferential statistics to quantitatively define the important 487 elements of a data set, while correlation and linear regression analysis 488 were employed to examine the data. They utilised a sample of fourteen 489 Nepalese commercial banks between 2008 and 2017. The results 490 demonstrated a positive correlation between liquidity ratio and ROA and 491 a negative correlation between capital ratio and investment ratio. 492 Moreover, the link between net profit margin and capital ratio is 493 negative. In conclusion, it is established that liquidity is not a significant 494 indication of a company's profitability (Bhatt & Verghese, 2018).

According to Ehiedu (2014), this study aims to determine the
relationship between the liquidity and profitability. Also, it measures the
relationship between the quick ratio and profitability. The sample
consist of listed but public companies that produce industrial/ domestic

500 product they used sample current ratio and profitability there is also a 501 technique called "nonprobability" using four selected companies they 502 measured liquidity ratio by current ratio and quick ratio also they 503 measured the firm performance using ROA and ROE ratios this research used qualitative research design also they depend on using They used 504 505 correlation analysis. Secondary data in the firm of account and annual 506 reports. The main result of this research there is a significant and positive 507 relationship between current ratio and profitability. There is no correlation between quick ratio and profitability. 508

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Previous research revealed a significant association between a firm's liquidity and performance. There is a considerable association between a firm's liquidity levels and the financial performance of listed companies. This conclusion necessitates more investigation to test this association on Egyptian Stock Exchange-listed enterprises, particularly in the context of the Egyptian capital market's high level of uncertainty. Following is how the research hypothesis may be derived.

H1: There is a significant association between liquidity and firm performance

<u>Relation between Asset utilization and firm</u> <u>performance:</u>

According to Zaman (2021), the purpose of the study was to determine the relationship between the current ratio, total asset turnover, and debt-to-total asset turnover ratio and the return on assets. In addition, the researchers selected a sample of mining companies listed on the Indonesian stock exchange between 2008 and 2017. In addition, they gathered secondary data from the financial statements of these organizations. In addition, panel data and EViews software were applied to the financial statement processing. In addition, regression analysis and a feasibility test were utilized to examine the relationship between the variables. In conclusion, they discovered a favorable relationship between the independent and dependent variables.

535 This research aims to understand the relation between asset 536 utilization and company performance. The researchers studied the 537 relation by taking a sample of 130 organization from different sector in 538 Indonesia. Also, they used quantitative method in order to study the 539 relation between the variables which they collected secondary data that 540 consist of different financial statements and ratios. In order to know the 541 relation between asset utilization and organization performance. They 542 measured asset utilization by asset utilization ratio and measured 543 organization performance by Tobins Q, return on asset and return on 544 invested capital. Also, they used three stage least square technique in the 545 simultaneous equation model. They found that there is a huge positive 546 relation between asset utilization and organization performance 547 (Herdinata, 2019).

548 The goal of this study, according to Akinleye and Dadepo 549 (2019), was to investigate the effect of asset utilisation on the performance of a sample of Nigerian manufacturing firms. They 550 551 analysed the collected data using descriptive statistics, correlation, and 552 regression analysis. From 2012 to 2016, secondary data were collected 553 from the annual reports and financial statements of ten publicly listed 554 corporations. Results demonstrated that asset turnover and current asset 555 ratios positively impact return on assets.

556 According to Utami (2017), the purpose of this study is to 557 investigate the effect of current ratio, debt asset ratio, total asset 558 turnover, and return on asset on price earnings ratio on the profitability 559 of businesses. In addition, their sample was comprised of firms that were 560 included in the LQ45 index from 2013 to 2016. In addition, they selected the sample using the approach of purposive sampling. In addition, the 561 562 researchers utilised multiple regression analysis to comprehend the relationship between the variables. Lastly, they discovered that the 563 current ratio, debt asset ratio, total asset turnover, return and price 564 earnings ratio, and profitability are all positively correlated. 565 566

> Asset utilization is the ratio of a company's total revenues to its total assets. Past research has demonstrated that asset usage positively affects the performance of a company. Companies with a high asset utilization ratio prefer to enhance their present performance to satisfy future market demand. This study contends that successful asset usage increases firm performance, but ineffective asset utilization decreases firm value. Hence, the second hypothesis is presented as follows:

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H2. There is a significant association between asset utilization and firm performance

Debt ratio:

579According to LE & phan (2017), the research aims to understand580the impact of leverage on quick ratio of organizations in Nigeria.581Moreover, the researchers picked 6 listed Nigerian organization from582the period 2003 to 2020 as their sample. Also, they collected secondary583data from annual accounts and reports of the organization and analyzed

584 it by using ordinary least square regression analysis and person 585 collection. The researchers found that there is a huge negative effect 586 between leverage and quick ratio in Nigerian organizations that are 587 listed in the Nigerian stock exchange.

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589 According to Ibrahim & Isiaka (2020), the research aims to 590 understand the relation between financial leverage and firm value. Also, they used a sample of 18 organization firm Nigerian stock exchange from 2014 to 2018. Additionally, they used long term debt in order to 592 593 measure the financial leverage and, used Tobins Q in order to measure 594 firm value. Also, there are 4 control variables which consists of age of firm, size of firm and return on asset. They used regression model by 596 using fixed effect panel model, random effect panel and pooled ordinary 597 least squares technique in order to understand the relation between 598 financial leverage and firm value. The researchers found that there is a 599 huge negative effect between firm value and financial leverage using 600 regression model.

602 According to Forte & Tavares (2019), this study examined the connection between debt and company performance by focusing on the 603 role of institutional structure and macroeconomics in gauging 604 605 performance. They assessed performance using return on assets (ROA) 606 and return on equity (ROE) (ROE). In addition, they concentrated on the Legal Structure and Security of Property Rights index and the index of 607 credit market regulation. From 2008 to 2013, they utilised a huge sample 608 609 of 48,840 manufacturing enterprises from nine nations. The study 610 demonstrated a favourable correlation between debt and business 611 performance; but, if the debt is long-term, the correlation might become 612 negative. Consequently, the degree of debt shows the nature of the 613 relationship.

615 Multiple studies have examined the link between leverage and business performance, demonstrating the influence of a third variable, 616 617 the firm's size. Total debt to asset ratio, long-term debt to asset ratio, and 618 short-term debt to asset ratio were used to assess leverage, while return 619 on asset and return on equity market performance measure (Tobin's Q) 620 was used to analyze company performance. In addition, they utilized the 621 firm's size, tax return, and age as additional considerations. Using 622 descriptive statistics on a sample of 101 listed firms in Nigeria from 623 2003 to 2007, it was discovered that the negative impact of leverage on 624 company performance is most pronounced and significant for small- to 625 medium-sized enterprises, and that evidence of a negative effect declines as a firm improves, eventually disappearing when firm size
exceeds its estimated threshold. Consequently, depending on the size of
the business, there exists a positive correlation between leverage and
firm performance (Ibhagui & Olokoyo, 2018; Adnan & Kamran, 2019).

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631 The objective of Vieira's (2017) research is to comprehend the 632 connection between family business debt policy and performance. 633 Moreover, it also focusses on the possibility of asymmetric debt policy 634 and its effect on performance between the period of stability and 635 economic advert. To determine the nature of this link, a panel data regression model was used to a sample of chosen listed businesses from 636 637 1999 to 2014 that were deemed to be protégés. The debt ratio policy was 638 evaluated using the short-term debt ratio, the long-term debt ratio, and 639 the overall debt ratio. In addition, the performance of the company 640 family was examined by ROA, ROE, and market-to-book ratio. In 641 conclusion, they discovered a negative link between debt policy and 642 company performance. Moreover, the primary weakness of the research 643 is the sample itself, as the bulk of the sample utilized is comprised of 644 small-sized organizations.

A company with a greater Debt ratio will be subject to heightened creditor and financial oversight. To be able to pay debt instalments and accrued interest, the firm must be managed profitably. In other words, organizations with high debt ratio are highly motivated and diligent, which contribute to the enhancement of corporate performance and value. Therefore, the third and fourth hypotheses are presented as follows:

H3. Debt ratio has a significant mediating impact on the association between liquidity and firm performance.

H4. Debt ratio has a significant mediating impact on the association between asset utilization and firm performance.

Empirical study:

The aim of this section is to empirically examine the impact of liquidity and asset utilization on firm performance considering debt ratio as a mediating variable. The chapter begin with understanding the research method including the data collection, sample and table of measurements and variables. Finally, it shows the statistical analysis of the hypotheses.

668	Research method:
669	The study used secondary data collected from organizations
670	financial statements. To test the research hypotheses descriptive
671	analysis; Pearson's correlation and multiple regression analysis have
672	been used through the Statistical Package for Social Science (SPSS)
673	Program to test the relation between liquidity, asset utilization and debt
674	ratio on firm performance.
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678	Sample and data collection:
679	The sample consists of 50 Egyptian organization that are listed
680	in the EGX100 from period (2019-2021). Moreover, the total number of
681	observations are 150 which collected so we can understand the
682	relationship between liquidity, asset utilization, debt ratio and firm
683	performance. Also, all the annual reports were downloaded from the
684	official websites of the organization and Mubashir.
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686	Variables measurement:

Table (1) variables and measurements						
	Measurements					
e						
Total asset	net sales					
turnover	average total saels					
Quick ratio	=					
-	current assets-inventory					
	current liability					
Debt ratio	_ current liablities					
	– total assets					
Return on equity	_ net income					
1 9	⁻ total equity					
	e Total asset turnover Quick ratio Debt ratio Return on equity					

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689 As stated in table (1) independent variable is asset utilization 690 which is measured by total asset turnover and liquidity is measured by 691 quick ratio. Moreover, the research mediating variable is debt ratio 692 which can be measured by current liabilities over total asset. Finally, the 693 dependent variable is firm performance which is measured by FIRM 694 PERFORMANCE which can be calculated net income total equity. 695 696

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Descriptive analysis:

With the use of inference statistics, the descriptive analysis may be used to describe data. It offers a summary of the sample information. Therefore, it assists us in understanding what our data means by displaying the minimum, maximum, mean, and standard deviation of the sample data set.

	Table (2) Descriptive Statistics									
	Ν	Minimum	Maximum	Mean	Std. Deviation					
Liquidity			. 16.4501	1.875877	2.6937227					
	50	1521								
Asset utilization	150	.0028	5.7818	.507050	.7109716					
Debt ratio	150	.0138	9.3911	.599492	1.1922953					
Firm performance	150	3462	5.6915	.114594	.4903372					
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Valid N (listwise)	150									

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723 724 The mean of the Liquidity of the observations is 1.875877which means that the average Liquidity among the observations is 1.875877. Moreover, if organization have a Liquidity less than 1 then it may not be able to fully pay its short-term obligations. So, since the mean of Liquidity is 1.875877 then most of the organization can pay its shortterm obligation and does not face financial distress.

Also, the mean of total asset turns over which means the average number of total assets turnover among the observations is .507050 and Asset utilization is sued to test how efficient the organization is using its asset to generate revenue. Moreover, the average debt ratio (mean) is .599492. It is used to measure how much of the assets of organization are bought using debts so, that means most of the organization in the sample had bought more than have of its assets using debts. Finally, the mean of return on equity is .114594. Moreover, high firm performance means that the organization can increase its profit generation without needing much capital.

Furthermore, the standard deviation of Liquidity is 2.6937227 and this is considered as a small variation since the minimum number of Liquidity is .1521 and the maximum number is 16.4501. Moreover, the 728 standard deviation of Asset utilization is .7109716 which it also 729 considered as a small variance since the minimum number of Asset 730 utilization is .0028 and the maximum number is 5.7818. Also, the 731 standard deviation of debt ratio is 1.1922953 which it considered as a small variance since the minimum of debt ratio is .0138 and the 732 733 maximum is 9.3911. Finally, the standard deviation of return on equity is .4903372 which it considered as a moderate variance as the minimum 734 735 number of FIRM PERFORMANCE is -.3462 and the maximum number is 5.6915. 736 737

Pearson's Correlation:

740 Pearson Correlation is used to examine or test the relationship 741 and direction between variables. As shown in Table (3), the correlation 742 between Liquidity and Asset utilization is -0.133, indicating that there is no association between these variables. While the correlation between 743 744 Liquidity and Debt Ratio is -0.249, indicating a significant association 745 between the two variables. Also, when the Liquidity increases, the debt 746 ratio will fall, since when the organization's liquidity increases, it will 747 be able to pay more of its loans, resulting in a decrease in the debt ratio. The association between Liquidity and Firm performance is -0.36, 748 which is statistically significant. 749

750 In addition, the correlation between Asset utilization and Firm 751 performance is 0.25, indicating a significant association. In addition, the 752 connection between Firm performance and Debt Ratio is -0.027, which 753 is not statistically significant. Lastly, the correlation between Debt Ratio 754 and Asset utilization is 0.439, indicating a positive and statistically 755 significant association. Thus, when asset utilization increases, the debt 756 ratio would likewise rise. Perhaps this is due to the fact that when a 757 company effectively utilizes its assets, the number of operations will expand, necessitating the borrowing of additional loans, hence 758 759 increasing the debt-to-assets ratio.

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762 763		Testing Hypotheses: Hypothesis one:											
		Table (4) Coefficients											
		Model	Unstandar Coefficien	dized	Standardized Coefficients	t	Sig.						
			В	Std. Error	Beta								
		(Constant)	.517	.048		10.8 20	.000						
		Liquidity	036	.015	249	- 3.13 1	.002						
		R square						0.32					
	a.	Dependent Va	riable: Firm pe	erformance				b.					

The results from table (4) indicate that liquidity has a negative impact on the performance of the firm. These results are in consistent with the results reached by (Gill & Mathur, 2011; Yameen et al., 2019; Arif & Batool, 2022). The justification for these results that corporate liquidity increases the profitability of firms. This can occur when firms maintain an ideal degree of company liquidity (e.g., holding liquid assets such as cash and cash equivalents). On the other hand, greater liquidity may have a detrimental effect on the firm performance.

	Liquidity	Asset utilization	Debt ratio	Firm performance
Liquidity	1			
Asset utilization	133	1		
Debt ratio	249**	.439**	1	
Firm	036*	.025*	027	1
performance ** Correlat	ion is significant at	the 0.01 level (2 to	(lad)	

 As shown in table (4) that the Liquidity can explain 3.2 % of the changes that happen in debt ratio and show why does it changes. When the Liquidity increases by 1 % the firm performance decreases by 0.36 %. Perhaps, this is because the negative correlation between Liquidity and firm performance. As, when the liquidity of the organization increases the ability to pay its debts will increase so the debt ratio will decrease. This led the researchers to accept the first hypothesis where the regression analysis results showed a negative significant impact on the firm performance.

Hypothesis two:

As shown in table (5) Asset utilization has a significant impact on firm performance at significance level less than 0.05.

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Table (5) Coefficients ^a									
	Unstandardized			Stand	lardized				
	Coefficients		Coef	ficients					
			Std						
		-	· ·						
Model	В		Error		Beta	t	Sig.		
(Constant)	.10	6	.0	49			2.144	.034	
Asset utilization	.01	7	.0	57	.025		.303	.763	
R square									0.064

a. Dependent Variable: return on equity

As shown in table (5) that the asset utilization can explain 6.4% of the changes in firm performance. The coefficient of total assets turnover ratio (asset utilization) is 0.17, meaning that the return on assets (Firm performance) improves by 0.17 percent. This can be explained that when asset utilization is correctly managed, it will impact the success of the organization, and this will improve the performance of the organization. According to the results above, hypothesis two is accepted that asset utilization has a significant positive impact on the firm performance.

Hypothesis three and four:

Hypotheses 3 and 4 are examining the moderating role of the debt ratio in the relationship between liquidity and asset utilization on one hand and the firm performance on the other hand. Table(6) shows the ANOVA analysis results.

Table (6) ANOVA ^a									
Model	Sum of Squares	df	Mean Square	F	Sig.				
Regression	.097	2	.048	.200	.819b				
Residual	35.727	147	.243						
Total	35.824	149							

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R2=0.003

a. Dependent Variable: return on equity

a. Predictors: (Constant), Liquidity, debt ratio= current liabilities / total assets

	Model	Sum of Squ	ares	df	Μ	lean Square		F		Sig.	
	Regression		.087		2		.043		.179		.836b
	Residual		35.737		147		.243				
	Total		35.824		149						
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R2=0.0049

a. Dependent Variable: return on equity

b. Predictors: (Constant), Asset utilization , debt ratio= current liabilities / total assets

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As shown in table (6) there is insignificant mediating impact of debt ratio on the relationship between both liquidity and asset utilization and firm performance. This is apparent from the low significant level 0.819 and 0.836 that are greater than 0.05. As shown in table (6) that the Liquidity while considering debt as mediating can explain only 0.003 of the changes that happen in return on equity which is used to measure firm performance. Meanwhile, the asset utilization while considering debt as mediating can explain 0.0049 of the changes that happen in return on equity which is used to measure firm performance. According to these results the researchers are rejecting hypotheses number 3 and 4.

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Results and discussion

Table (7) is summarizing the main results of testing the research hypotheses. The tale included the acceptance and rejection of the hypotheses along with sample of the supporting literature review.

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Hypothesis	Results	Acceptation or rejection of the hypothesis	Supporting article
H1: There is a	The results showed that	Accepted	Eljelly
significant	there is a correlation	_	(2004)
association	between the quick ratio		
between	and firm performance. As,		
liquidity and	negative relation because		
firm	when the company		
performance	possess excessive		
	liquidity the company		
	performance may		
	decrease		

Table (7): summary of the research hypotheses testing results

H2: There is a significant association between asset utilization and firm performance	The results showed that there is a positive significant association between total asset turnover and firm performance.	Accepted	Nafi'ah et al., (2022))
H3. Debt ratio has a significant mediating impact on the association between liquidity and firm performance	The results showed that there is no correlation between liquidity and firm performance considering debt ratio as mediating	Rejected	Dimyati et al. (2021),
H4. Debt ratio has a significant mediating impact on the association between asset utilization and firm performance.	The results showed that there is no correlation between asset utilization and firm performance considering debt ratio as mediating variable	Rejected	Junaid & ali (2020),

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823 As table (7) shows that the first and second hypotheses are 824 accepted that there is a negative significant association between liquidity 825 and firm performance. Which means that when the Liquidity increases 826 the firm performance may deteriorate if the liquidity exceeded the safe 827 levels and became idle in the company and not generating return to the company. On the other hand, hypothesis two is also, accepted where 828 829 there is a significant positive association between asset utilization and 830 firm performance. Also, it shows that the correlation is positive which it 831 means that when the Asset utilization increases the operation of the 832 organization will increase and the organization will achieve more revenue so the performance of the company will increase. 833

Regarding third and fourth hypotheses, both are rejected when
considering debt ratio as a mediating variable. Perhaps, this is because
if the company has excessive liquidity and high asset utilization it would
not e in a need for borrowing and it can finance its own operations
through the available resources.

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Conclusion, limitation, and recommendations

842 The paper tries to examine the association between liquidity and firm performance in addition to testing the mediating role of debt ratio 843 844 on this association. The data analyzed was secondary collected through 845 companies' financial statements. The sample consisted of 50 Egyptian 846 listed companies that have been selected out of the EGX 100 index after excluding all the financial institutions due to their special nature. The 847 848 data were analyzed using descriptive analysis, regression and ANOVA 849 techniques. The results showed the acceptance of the first and second 850 hypotheses and the rejection of the third and fourth hypotheses. The 851 main theme here is that liquidity and asset utilization are among the key 852 factors for enhancing the firm performance. In this study, the results showed a negative significant association between liquidity and firm 853 854 performance ad that was accepted because if the company has excessive cash this led to lower profitability to the company as it is not used in the 855 856 right investment. Likewise, the liquidity can increase by increasing the 857 asset utilization in the originations which that will increase the profit of 858 company. The second hypotheses stated that there is a significant 859 association between asset utilization and firm performance which also 860 was accepted because since asset utilization is high the operations of the 861 business will expand and will enhance the firm performance. Asset utilization can be enhanced through many techniques for example, 862 863 increasing the inventory turnover or enhancing the sales turnover so the 864 firm will achieve higher revenue.

865 The third and fourth hypotheses have been rejected. There is a 866 insignificant mediating role for the det ration on the association between liquidity and asset utilization and firm performance. So, Asset utilization 867 868 does not affect firm performance while considering debt ratio as 869 mediating variable. Perhaps, this is because when the liquidity within 870 the acceptable level and asset utilization increases the debt will not be an impacting factor as the company have its resources to finance its 871 872 operations and increase its profitability.

873 In addition, most researchers, such as Bahti et al. (2019), discovered a favourable relationship between liquidity and company 874 875 performance after conducting a literature study. Nevertheless, Dimyati 876 et al. (2021) and Mustafa et al. (2019) discovered a negative relationship 877 between liquidity and company performance. On the other hand, 878 Chauhan and Juliana (2020) discovered that asset usage positively 879 correlates with company performance. In contrast, Sarpingah (2020) and 880 Junaid and Ali (2020) discovered that asset usage negatively correlates with company performance. In addition, Forte & Tavares (2019) found 881

a favorable correlation between debt ratio and business performance.
While Le & phan (2017) found a negative relationship between firm
leverage, as measured by debt ratio, and company performance, we find
the opposite.

886 This study is impeded by a lack of information regarding asset 887 utilization metrics and the relationship between the debt ratio and 888 enterprise performance. Also, the research was limited to a three-year 889 period beginning in 2019 and ending in 2021, which was seen as a 890 constraint because a longer time period may have shown different 891 results, and there was a shortage of data for several factors. In addition, 892 the research focuses on only a few particular metrics for variables such 893 as ROE for assessing firm performance and Asset utilization for determining asset utilization. Lastly, the research concentrated 894 exclusively on major corporations in Egypt and ignored small and 895 896 medium-sized enterprises (SMEs) in Egypt.

Recommendations for future research:

900 The research's main goal is to focus on the impact of liquidity 901 and asset utilization on firm performance while considering debt ratio as 902 mediating variables. So, it is recommended for future research to 903 investigate and collect data on wider range of years which is more than 904 3 years. In order to get more accurate results and test the relation 905 between the variables. Moreover, it is recommended to use different 906 mediating variable other than debt ratio and find more mediating 907 variables that may affect the firm performance. Furthermore, future 908 researches can use different measurements to measure the variables such 909 as current ratio for liquidity, inventory turnover which is used to 910 measure asset utilization and return on asset to measure the firm 911 performance. Also, future research needs to study different types of 912 origination such as small medium size enterprises and small 913 organization. So, they can test the effect of independent variable on the 914 dependent variable more accurately.

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