American Journal of Humanities and Social Sciences Research (AJHSSR) e-ISSN: 2378-703X Volume-08, Issue-07, pp-01-06 www.ajhssr.com Research Paper

Open Access

The Influence of Intelligence Quotient (IQ) and Information System on Performance

Nanda Dwi Mahendra¹

¹FEB Master of Management Student, Open University, Indonesia

ABSTRACT :The Influence of Intelligence Quotient (IQ) and Information System on Performance is a scientific article in the literature study within the scope of the field of science. **The purpose** of this article is to build a hypothesis of the influence between variables that will be used in further research. **Research objects** in online libraries, Google Scholar, Mendeley and other academic online media. **The research method** with the research library comes from e-books and open access e-journals . **The results** of this article: 1) Intelligence Quotient (IQ) has an effect on Performance. 2) Information System has an effect on Performance.

KEYWORDS: Performance, Intelligence Quotient (IQ), Information System

I. INTRODUCTION

Background Problem.

Every student both Strata 2 must do research in form theses , theses and dissertations. Likewise for lecturers , researchers and staff functional others active do research and create article scientific for publication in journals scientific .

Work scientific is as a condition for student For finish study in part big Universities in Indonesia. Provision This applies For all levels education that is second level thesis (S2).

Based on experience empirical Lots struggling students and authors in look for article supporter For work scientific as study previous or as relevant research. Relevant articles are needed For strengthen the theory under study , for see connection or influence between variables and constructs hypothesis This articlediscuss The Influence of Intelligence Quotient (IQ) and Information System on Performance, adeep literature review study fieldSystem Information Management .

Based on background behind so **objective writing** article This is build hypothesis For research next , viz For formulate : The Influence of Intelligence Quotient (IQ) and Information System on Performance.

II. METHOD

Writing method Literature Review articles are with method Literature Review (*library research*) and *Systematic Literature Review* (*SLR*), analyzed in a wayqualitative, sourced from online applications *Google Scholar*, *Mendeley* and applications other online academics.

Systematic Literature Review (SLR) is defined as a process of identifying, assessing and interpreting all proof available research with objective For provide answer For question study in a way specific (Kitchenham et al., 2009).

In analysis qualitative , study References must used in a way consistent with assumptions methodological. One of reason For do analysis qualitative that is study the nature explorative , (Ali, H., & Limakrisna , 2013).

III. THEORITICAL REVIEW

Performance

Performance is the results obtained on efforts and tasks carried out and completed (Marwansyah , 2012).

Performance is results obtained by individuals or group inside something organization that has their respective duties and authorities are not contradictory with rules and laws (W. Sisson, 1993).

Dimensions, indicators, synthesis or factors that influence performance are quality, efficiency and profit.

2024

2024

This performance has been studied by many previous researchers, including (Nurhab, M., et al, 2022), (H. Tanty, et al, 2022), and (Abbas Sheikhtaheri, et al, 2020).

Intelligence Quotient (IQ)

Intelligence Quotient (IQ) is defined as a number that reflects a person's relative level of intelligence compared to the general population (Binet, A., et al, 1916).

Intelligence Quotient (IQ), generally measures cognitive abilities such as logical reasoning, problem solving, and verbal abilities (Gardner, H, 1983).

Dimensions, indicators, synthesis or factors that influence Intelligence Quotient (IQ) are speed of working on questions, understanding, and academic value.

This Intelligence Quotient (IQ) has been extensively researched by previous researchers including (Muhammad Hamid Murtza, et al, 2020), (Bowman JK, et al, 2021), and (Ruben C. Gur et al, 2021).

Information System

Information Systemis a system that processes financial and other accounting transaction data to produce information that is useful for decision making by managers and other external parties (Raymond Mc Leod, et al 2001).

Information System is a set of interrelated components that collect, process, store, and distribute information to support decision-making, coordination, control, analysis, and visualization in an organization. (Laudon, K. C., & Laudon, J. P., 2022).

Dimensions, indicators, synthesis or factors that influence Information Systemare data complexity, integration between departments, and report results.

Review Relevant Articles

Reviewing relevant articles as a basis for establishing research hypotheses by explaining the results of previous research, explaining similarities and differences with the research plan, from relevant previous research as in table 1 below.

No	Author (Year)	Previous Research	Equality With This	Difference With	Η
		Results	Article	This Article	
1	Muhammad Hamid Murtza, Shahzad Ali Gill, Hassan Danial Aslam, Amna Noor (2020)	Findings reveal that IQ influencesemployee's job performance and job satisfaction.	IQinfluencesperformance	IQinfluencesjob satisfaction.	H1
2	BowmanJK,BooneRT,GoldmanSAuerbachA(2021)-	IQpredictedstatisticallysignificantrelationshipswithperformanceaftercontrollingforvariablesvariables	IQinfluencesperformance	There is control variable	H1
3	Ruben C. Gur et al (2021)	IQ scores influences to computerized neurocognitive performance	IQinfluencesperformance	The performance measured iscomputerized neurocognitive performance	H1
4	Scott R. Hogan, Daniel Taylor, R. Thomas Boone, James K. Bowman (2023)	IQ predicted some modest statistically significant relationships with multiple NBA statistics (performance)	IQinfluencesperformance	There is control variable	H1
5	Nurhab, M. I., Alfansi, L., Pareke, F. J., & Anwar, S. (2022)	Intellectual Intelligence (IQ) has a positive and significant effect on Performance, Emotional Intelligence (EQ) has a positive and significant effect on Performance. And Intellectual	Intellectual Intelligence (IQ) has a positive and significant effect on Performance	Emotional Intelligence (EQ) has a positive and significant effect on Performance. And Intellectual Intelligence (IQ) and Emotional	H1

Table 1: Research Results Relevant

Amer	ican Journal of	Humanities and Social	Sciences Research (AJH	(SSR) 2024
		Intelligence (IQ) and Emotional Intelligence (EQ) have a positive and significant effect simultaneously on performance.		Intelligence (EQ) have a positive and significant effect simultaneously on performance.
С	. Tanty, C. artono, C. aitlin, and W. /ijaya (2022)	The research results found that a person's emotional intelligence and intellectual intelligence have a significant effect on the work performance of fresh graduates	Intellectual intelligence have a significant effect on the work performance	Emotional H1 Intelligence and intellectual intelligence have a significant effect on the work performance of fresh graduates
K N Sa	igdem Gonul ochan, David R. owicki, Brian auser, Wesley S. andall (2018)	The findings of this study show that cloud- based information (information system) sharing improves visibility in healthcare supply chains performance	Information system sharing improves visibility in healthcare supply chains performance	Cloud-based H2 information system
ar	oshikuni, A.C. ad Albertin, A.L. 2018)	InformatiomSystemcanpredictcorporateperformanceandcompetitive strategy	Information System influences performance	Information systems H2 influences on competitive strategy.
D A B A	areem HM, auwed M, Meri , Jarrar M, Al- sheish M, Idujaili AA 2021)	The results showed that AIS (Accounting Information System) and KMC (Knowledge Management Capabilities) have a positive and significant role in enhancing organizational performance	Information System influences performance	Accounting H2 Information System andKnowledge Management Capabilities influences performance
N B	jalic, N., ikolic, M., akator, M. rceg, Z. (2021)	The results indicate that IS (information systems), HRM (human resource management), DM (decision making) can affect business performance in a transitional economic setting.	Information System influences performance	HRM and DM H2 influences performance
	Iohamed Saad 2023)	The findings supported the significant effects of system and information quality on system usage but not services quality. Also, AIS (Accounting Information System) use was found to significantly affect the performance of business.	Information System influences performance	Significant effects of H2 system and information quality on system usage
	bbas heikhtaheri,	HIS (Hospital Information Systems)	Information System influences performance	Specific toHospital H2 Information Systems

Somayeh	and their	actual use	
Malekzadeh,	positively	improves	
Niyoosha-sadat	their	individual	
Hashemi, Nasim	performance in working		
Hashemi (2020)	with HIS.		

IV. DISCUSSION

Based on theoretical studies so discussion article*this literature review*is reviewing relevant articles, analysis influence between variables and create conceptual think plan study.

Based on results study so discussion article *This* is reviewing relevant articles, analysis influence between variables and create conceptual think plan study :

The Influence of Intelligence Quotient (IQ) on Performance.

Intelligence Quotient (IQ)is the the ability to react quickly and appropriately, both physically and mentally, to new experiences, making the experience and knowledge already possessed ready to be used when faced with new facts or conditions

Intelligence Quotient (IQ)influences Performance, If Intelligence Quotient (IQ) is perceived well then Performance will be perceived well too, and vice versa. This can be explained by the fact that if Intelligence Quotient (IQ) increases, it will cause the Performance to increase. Likewise, if Intelligence Quotient (IQ) decreases, it will cause the Performance to decrease.

Factors that influence Intelligence Quotient (IQ) are speed of working on questions, understanding, and academic value.

To improve performance by paying attention to Intelligence Quotient (IQ), what management must do is increase employee Intelligence Quotient (IQ) with training so that performance increases.

Intelligence Quotient (IQ) has an effect on Performance, this is in line with research conducted by (Muhammad Hamid Murtza, et al, 2020), (Bowman JK, et al, 2021), and (Ruben C. Gur, et al, 2021).

The Influence of Information Systemon Performance.

Information system is technologies that can process relatively large and relatively difficult data so that it becomes easy for users to read.

Information system is technologies that can integrate departments so that they are connected to each other to increase the speed and accuracy of data flow.

Information system influences Performance, If information system is perceived well then Performance will be perceived well too, and vice versa. This can be explained by the fact that if Information system increases, it will cause the Performance to increase. Likewise, if information system decreases, it will cause the Performance to decrease.

Factors that influence Information Systemare data complexity, integration between departments, and report results.

To improve performance by paying attention to information system, what management must do is improve employee information system capabilitiesso that performance increases.

Information System has an effect on Performance, this is in line with research conducted by(Kareem HM, et al, 2021), (Djalic, N.,et al, 2021), and (Mohamed Saad, 2023)

Research conceptual framework

Based on the problem formulation, discussion and relevant research, the conceptual framework for this article is obtained as in Figure 1 below.

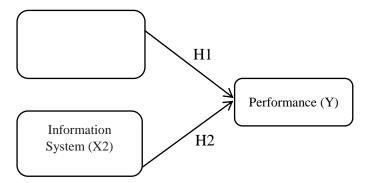


Figure 1: Conceptual Framework

Based on the conceptual framework above, then: Intelligence Quotient (IQ) has an effect on Performance and Information Systemhas an effect on Performance. Apart from exogenous variables that influence performance, there are still Lots variable others, among others is:

- 1) Emotional Intellegence: (H. Tanty, C. Hartono, C. Caitlin, and W. Wijaya, 2022),
- Cloud Based Data Storage: (Cigdem Gonul Kochan, David R. Nowicki, Brian Sauser, Wesley S. Randall, 2018),
- 3) Knowledge Management Capabilities: (Kareem HM, Dauwed M, Meri A, Jarrar M, Al-Bsheish M, Aldujaili AA, 2021)

V. CONCLUSION

Based on objectives , results and discussion so conclusion article This is For formulate hypothesis For research next , namely :

- 1) Intelligence Quotient (IQ)influences Performance; and
- 2) Information System influences Performance

REFERENCES

- Abbas Sheikhtaheri, Somayeh Malekzadeh, Niyoosha-sadat Hashemi, Nasim Hashemi (2020). Effects of Using Hospital Information Systems on Nurses' Individual Performance: A Study on Influential Factors. Volume 271: dHealth 2020 – Biomedical Informatics for Health and Care. 10.3233/SHTI200092
- [2] Ali, H., & Limakrisna, N. (2013). Research Methodology (Practical Instructions for Solving Business Problems, Preparing Doctoral Dissertations, Theses and Dissertations. In Deeppublish: Yogyakarta.
- [3] Binet, A., & Simon, T. (1916). The Development of Intelligence in Children.
- [4] Bowman JK, Boone RT, Goldman S and Auerbach A (2021). The Athletic Intelligence Quotient and Performance Outcomes in Professional Baseball. Front. Psychol. 12:629827.https://doi.org/10.3389/fpsyg.2021.629827
- [5] Cigdem Gonul Kochan, David R. Nowicki, Brian Sauser, Wesley S. Randall (2018). Impact of cloudbased information sharing on hospital supply chain performance: A system dynamics framework. International Journal of Production Economics. Volume 195. Pages 168-185. ISSN 0925-5273. https://doi.org/10.1016/j.ijpe.2017.10.008.
- [6] Djalic N, Nikolic M, Bakator M, Erceg Z (2021). Modeling the Influence of Information Systems on Sustainable Business Performance and Competitiveness. Sustainability;13(17):9619. <u>https://doi.org/10.3390/su13179619</u>
- [7] Gardner, H. (1983). Frames of Mind: The Theory of Multiple Intelligences.
- [8] H. Tanty, C. Hartono, C. Caitlin, and W. Wijaya, (2022) "The Pengaruh Intelligence Quotient (IQ) dan Emotional Quotient (EQ) terhadap Kinerja Fresh Graduate", Jurnal Education And Development, vol. 10, no. 3, pp. 276-281, Aug. 2022.https://journal.ipts.ac.id/index.php/ED/article/view/3987https://doi.org/10.37081/ed.v10i3.3987
- [9] Kareem HM, Dauwed M, Meri A, Jarrar M, Al-Bsheish M, Aldujaili AA. The Role of Accounting Information System and Knowledge Management to Enhancing Organizational Performance in Iraqi SMEs. Sustainability. 2021; 13(22):12706. <u>https://doi.org/10.3390/su132212706</u>
- [10] Kenneth C. Laudon and Jane P. Laudon (2014). Management Information Systems. Pearson.978-0-273-78997-0.
- [11] McLeod, Raymond Jr., and George Schell. Management Information System. Accounting Information System. Prentice Hall Indeks.
- [12] Mohamed Saad (2023). The influence of accounting information system adoption on business performance amid COVID-19, Computers in Human Behavior Reports, Volume 10. 100286. <u>https://doi.org/10.1016/j.chbr.2023.100286</u>.
- [13] Muhammad Hamid Murtza, Shahzad Ali Gill, Hassan Danial Aslam, Amna Noor (2020). Intelligence quotient, job satisfaction, and job performance: The moderating role of personality type. <u>https://doi.org/10.1002/pa.2318</u>
- [14] Nurhab, M. I., Alfansi, L., Pareke, F. J., & Anwar, S. (2022). Pengaruh Kecerdasan Intelektual (IQ) dan Kecerdasan Emosinal (EQ) Terhadap Kinerja. JURNAL BISNIS DAN MANAJEMEN, 2(1), 18-29. <u>https://journal.moestopo.ac.id/index.php/jmb/article/view/1971</u>
- [15] Ruben C. Gur et al (2021). Relationship between intelligence quotient measures and computerized neurocognitive performance in 22q11.2 deletion syndrome.Onlinelibrary. https://doi.org/10.1002/brb3.2221
- [16] Scott R. Hogan, Daniel Taylor, R. Thomas Boone, James K. Bowman (2023). The Athletic Intelligence

2024

Quotient and performance in the National Basketball Association. Sec. Movement Science. https://doi.org/10.3389/fpsyg.2023.1197190

- [17] Sisson, J. W. (1993). Personnel Administration: An Expanded View. Boston, MA: Houghton Mifflin
- [18] Yoshikuni, A.C. and Albertin, A.L. (2018), "Effects of strategic information systems on competitive strategy and performance", International Journal of Productivity and Performance Management, Vol. 67 No. 9, pp. 2018-2045. <u>https://doi.org/10.1108/IJPPM-07-2017-0166</u>