protection, and easy retrieval (Khine & Shah, 2017). However, big data pose challenges to the structure of extremely scalable computational systems and algorithms meant to integrate information. Computational algorithms and systems also uncover multiple and diverse data values.

(3) Prompt 1 The data warehouse architecture is an information system that is complex that do contain the historic and the commutative information from many sources. There three architectures of data warehouse i.e the single tier architecture where the aim of one layer is minimizing the amounts of information being stored. This aim removes information redundancy, but the architecture is not mostly used. Also, there is a two-tier architecture that do separate the physical sources and the information warehouse. Here the architecture cannot expand and cannot support large amount of end customers. This architecture have connection problems due to its limitations of the network. Then there exists a three tier architecture that do consist of top tier, middle tier and the bottom tier. The top tier is actually the front end user layer. Also it's the tools and the API which connects and gets the data out from the data warehouse and it can be the query tool, a report tool, a manage query tool, analysis tool as well as the data mine tool. The middle tier is the OLAP servers that is implemented by use of MOLAP model or ROLAP model. Also this tier act as the link between the end clients and the databases. (3) The bottom tier is mostly the relational database systems where the data is transformed and transformed then loads to this layer by use of back end tool (Solodovnikova & Niedrite, 2018). There are five main components of

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tier is mostly the relational database systems where the data is transformed and transformed then loads to this layer by use of back end tool (Solodovnikova & Niedrite, 2018). There are five main components of the data warehouse. (4) To start with there is data warehouse databases. (3) The database that is centrally placed is the foundations of data warehouse environments. The database was implemented by the use of Relational Database Management System technologies. Then there is the source, acquisitioning, cleaning-up and transformations tools. The data source, transformations and the migrations tool are being in use for the performance of all the conversions, summaries and all other change that may be needed in transforming the data to the unified formats in the data warehouse. There tools are also known as extracting, transforming and loading tools. Also there is Metadata whose name suggest some higher levels of technology concepts. The Metadata data is concerned on the data that define the data warehouse. It is used to build, to maintain and to manage the data warehouse. At the data warehouse architecture, the metadata play a crucial role as it specify the sources, usages, value and characteristics of the data warehouse. As well it outlines the way to change data and how to process it. Another component is the query tool. This tool allows the user to be interacting with the data warehouse systems. The query tool falls into different categories namely; query and report tool, applications developments tool, data mining tool and the OLAP tool. Also there is data warehouse bus architectures that determine the flows of data in the warehouse. The data flowing in the warehouse is classified into inflows, upflows, downflows, outflows as well as meta flows. One considers the shared dimension and the fact a crossing the data mart while in the design of a data bus (Linstedt & Olschimke, 2016). The following are the trends; the data mart shall outline the coming business model. The data mart surface as the subsets of the data warehouse, designing towards addressing the requirement of a particular business functions. Also there is a column base storage is increasing especially when it comes to the retrieval of the analytical query, the efficiencies of the column base storages are high than the row base

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