JOCELYN LEE SHUN ZHEN TP072597

PART A

1. Time-Consuming. The file-based system approach is time-consuming for Mr. Ragu to record data like sales and inventory for his stationary retail shop. As his business grows by time, more data need to be recorded manually into the excel sheet and it also becomes more difficult for Mr. Radu to handle or arrange all the data that might be interconnected to one another. Besides that, modifications or addition of new data into the file-based system tends to produce errors and this also takes time to debug it.

Additionally, additional modifications in programs which use the data is also one of the drawbacks of file-based system. Data in the file-based system are in-sync with other programs which use the data. Therefore, if there are modifications made in the file-based system like Mr. Radu’s excel sheet, extra effort is required to modify the data in other programs as well. This might be much troublesome as modifications made on both excel sheet and other programs should be the same in order to maintain the business precision.

Moreover, omitted security features is also the drawback of file-based system. Confidentiality of data especially business sales is vital in every business and these important data within a business must be protected from unauthorized use from people outside the organization. By using the file-based system which has omitted security features, there are higher risks for outsiders to access the business details of Mr. Radu stationery retails shop or even alternate the data. This may lead to poor decision-making for Mr. Radu to grow his business.

1. DBMS has security management. Confidentiality and integrity of data in Mr. Ragu’s business are guaranteed where DBMS provides the protection to the important data from unauthorized use from people outside the organization. Data privacy and user security of Mr. Ragu’s business are guaranteed as there are lower risks for outsides to access the business details/data with the DBMS security management. This may also prevent the unauthorized alternation of data in Mr. Ragu’s business.

DBMS also provides multiuser access control. Complicated algorithms are used by DBMS to allow multiple users to access the database at the same time without allowing the database integrity to be compromised. This helps Mr. Ragu’s business to be updated efficiently from time to time without having to wait for the other users.

Besides that, time-saving is also the advantage of DBMS. DBMS is time-saving for Mr. Ragu to record data like sales and inventory for his stationary retail shop as DBMS is able to define and determine the data and the relationships between many data without having users to record or classify manually and eventually decrease the possibility of getting errors.

1. DBMS has security management function. Confidentiality and integrity of data are guaranteed where DBMS provides the protection to the important data from unauthorized use from people outside the organization. Data privacy and user security are guaranteed as there are lower risks for outsides to access the business details/data with the DBMS security management. This may also prevent the unauthorized alternation of data in business.

DBMS also provides multiuser access control. Complicated algorithms are used by DBMS to allow multiple users to access the database at the same time without allowing the database integrity to be compromised. This helps business to be updated efficiently from time to time without having to wait for the other users.

Besides that, data storage management is also the advantage of DBMS. DBMS makes it easier to record data like sales and inventory as DBMS is able to define and determine the data and the relationships between many data without having users to record or classify manually and eventually decrease the possibility of getting errors.

PART B

A picture containing text, electronics, screenshot, software

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