

16.8.24

11.

OLTP:

OLTP stands for online transaction processing. It is a type of data processing that involves managing and executing a large number of short online transactions. These transactions are typically used in applications such as online banking, shopping, order entry, and text messaging.

Characteristics of OLTP:

* Real-time processing:

OLTP systems process transactions in real time, ensuring immediate response to user requests.

* High throughput:

they handle a high volume of transactions, often involving multiple users, simultaneously.

* Data Integrity:

OLTP system ensure data accuracy and consistency, even in the event of system failures.

* concurrency:

They support multiple transactions occurring at the same time without interference.

* short transactions:

Transactions are typically short and involve simple queries like insert, update and delete.

OLAP:

OLAP stands for online Analytical Processing. It is a technology used for performing complex queries and multi-dimensional analysis on large volume of data, typically in a data warehouse or data lake.

Key features of OLAP:

* Multi-dimensional analysis:

OLAP allows data to be viewed and analyzed from multiple dimensions, such as time, geography and product categories.

* OLAP cubes:

These are the core of OLAP systems, organizing data into a multidimensional format that enables rapid processing and insightful analysis.

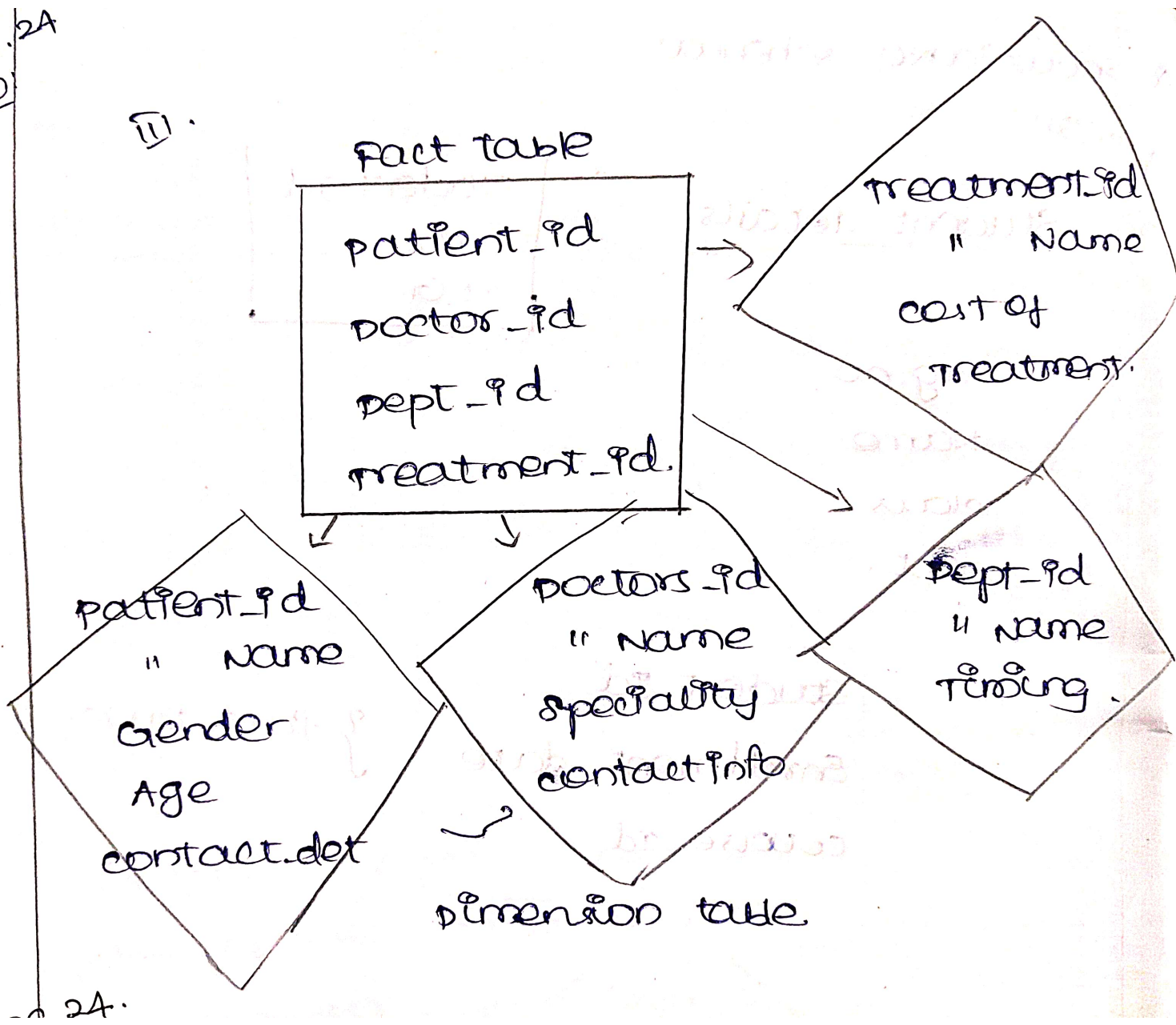
operations:

common OLAP operations include consolidation (roll-up), drill down and slicing and dicing.

OLAP is particularly useful for business reporting, forecasting and decision support. It helps in identifying trends, patterns and insights that might not be apparent with traditional data analysis method.

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HW

II.



BANK loan

