Parkenta II

MEANING OF OLTP:

⇒ 01fp. Online Transaction Processing, Refers
to the System being accessible and wable over a
network in Real-time. A transaction is a Single, atomic
unit of work, Such as a database operation Cinsert, woodse,
delete) or a bluiness process Ce.g: Placing an order).

This refers to the System's ability to handle and emeante Transactions efficiently and accumately.

This emphasizes the system's focus on processing Transactions, rather than Just Storing data.

ADVANTAGES OF OLTP:

Fast and Estiment:

OLTP Systems process transactions quickly,

HUMONIA MINIORIA

ensuring timely responses.

Real-Time Processing:

Transautions are Processed immediately, replacing up-to-date information.

Improved Data Integrity:

OLTP Systems enforce data Consistency and accuracy.

Enhanted Security:

User access controls and Transactions logging

ensure deture data management.

High Availability:

OLTP dystems are designed for lontinuous

operation. minimizing down time.

& cability:

OLTP Systems can handle increasing Transaction

volumes and user teads.

Reduced Frronts:

Automated Processing minimizes manual errors and intensistenties.

Cost-Effective:

OLTP Systems Greamlino Processes, reducing

Openational Costs.

Data Preshness:

Data is always up to date, reflecting the

latest Transactions.

Support Business operations:

OLTP Systems facilities day to day

business activities.

DISADVANTAGES OF OUTP:

Complenity:

OLTP systems can be complem to design. I

High Costs:

can be empensive.

Data Normalization:

OLTP Systems require normalized data, which can lead to slower query portormance.

Limited Data Analysis:

OLTP Systems follow on Transactions, not

complem data analysis.

Data Warrehowing challenges:

Integrating outp data into datawarehouse for analytics can be ditticult.

Scalability limitations:

With ontronely high Transaction volumes.

Backup and Recovery:

and relovenies can be challenging.

System overland:

the System, causing Performance issues.

Dependence on Hardware:

Outp Performance is usually tied to hardware capabilities, requiring regular upgrades.

MEANING OF OLAP:

Online legical Analytical Processing (6LAP),
Refers to the Eystem being accessible and usable over a
Network, in real-time, Emphasizes the System's ability
to Process and analyse data legically, using complem
Quenies and calculations.

ADVANTAGES OF DLAP:

Past Query Performance:

outh a primite data Storage and alwaying for rapid response times.

Improved Devision - Making:

64AP enables timely and informed devisions by Providing fast aliess to relevant data.

Enhanced Business Inkuigence:

OLAP Supports complen data analysis.

fore casting and Trend analysis.

Multidimensional Analysis:

maligne dimensions such as time geography and Maduat.

Data Agnegation:

ocap frables Summarization and oggregation of data, talcilitating analysis and reporting.

Simplified Referring:

Teduving manual effort and orrors.

Increased Productivity:

OLAP Auromales many analytical tasks. Freeing up resource for Strategic autivities.

Botter Data Management:

which then without a banks

OLAP integrates data from various Sources.
Provided a unitied view.

Scalability:

of data and user queries.

grade host has ontended

Disadvantages of OLAP:

complemely:

OLAP Systems can be challenging to design.

implement and maintain.

High-Costs: Dovoloping and mountaining olap systems can be empensive.

Data Quality issues:

OLAP relies on high-quality data, which can be dittimit to enjure.

Data Integration challenges: Integrating data from various sources can be time Consuming and Comprom

Limited Real-Time capabilities:

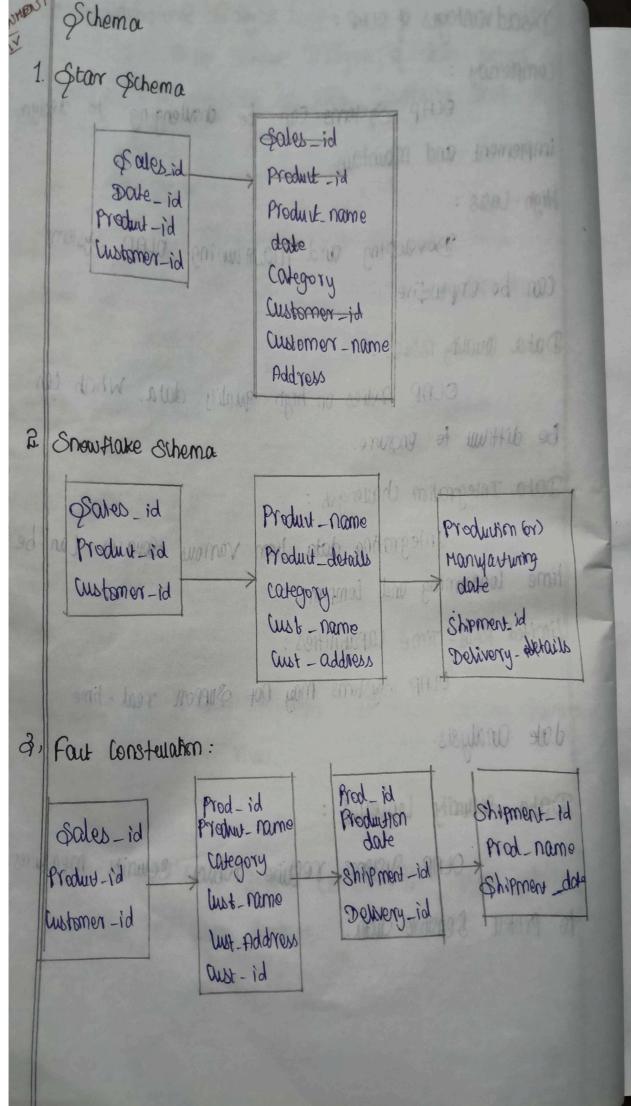
OLAP Systems may not support real-time

date analysis.

Data Selwrity Loncorna:

OLAP Systems require robbes solurity measures

to protect sensitive data.



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