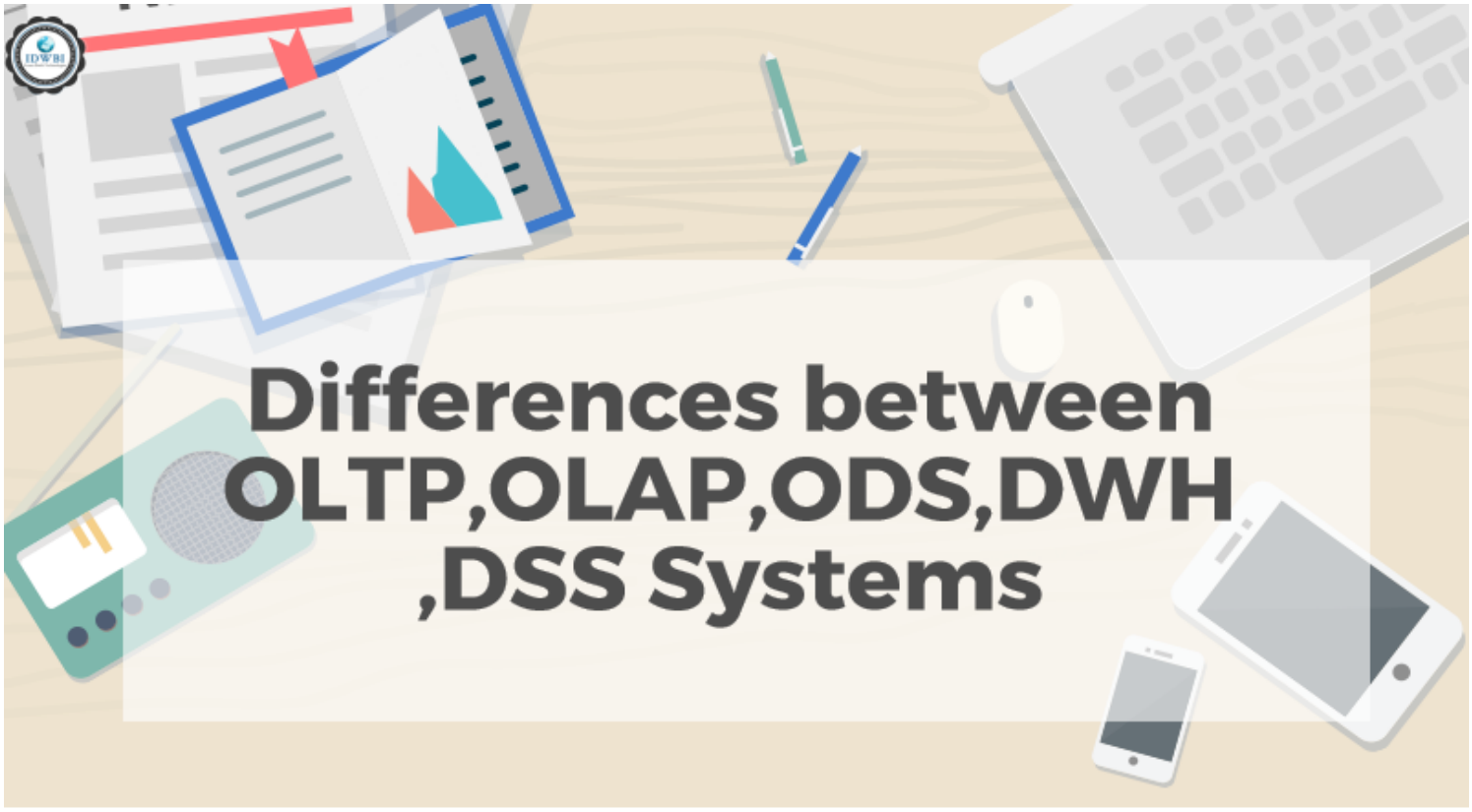
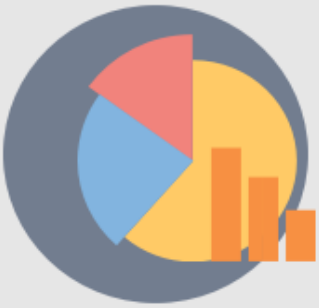


Differences between OLTP,OLAP,ODS,DWH ,DSS Systems

ETL Developers/ETL Testers (QA) often will be asked this question on the differences - between OLTP/OLAP, ODS/DWH, ODS/OLTP, OLTP/DWH, OLTP/DWH, OLTP/DSS, DWH/DM?

OLTP VS OLAP

- It is dynamic
- It follows normalization
- It contains current data
- It is designed to support transnational process
- It contains detailed data



- It is static or unchanged data
- It follows denormalization
- It contains historical data
- It is designed to support decision making process
- It contains summarized information

ODS VS DWH

- It is designed to support operational process

Similarities:

- Integrated database
- Enterprise data
- Subject oriented database

Differences:

- Contains current information
- Data is volatile
- Contains detail information

- It is designed to support operational process

Similarities:

- Integrated database
- Enterprise data
- Subject oriented database

Differences:

- Contains historical information
- Data is non-volatile
- Contains summary information

ODS VS OLTP

- Subject oriented database

- Application oriented database

OLTP VS DWH

- Data is volatile
- It contains current data
- It is application oriented database
- It is not flexible
- It stores all data

- Data is non-volatile
- It contains historical data
- It is subject oriented database
- It is flexible
- It stores relevant data

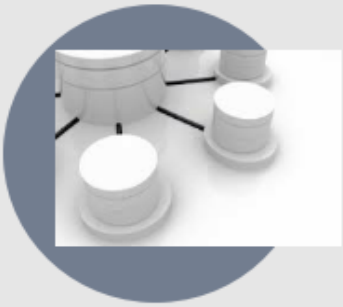
OLTP VS DSS

- It is designed to support operational process
- Data is volatile
- Data is in inconsistency form
- It stores recent data for approximately 4 to 6 months of data
- It follows normalized schema

- It is designed to support decision making process
- Data is non - volatile
- It is in consistent form
- It stores One year of data
- It follows star schema

DWH VS DM

- It is about entire organization
- It is created on RDBMS
- It follows integrated schema design
- It is designed to support transnational process
- It is integrated database



- It is about individual department in the firm
- It is created on RDBMS & MDDB
- It contains historical data
- It follows star schema design
- It is subject oriented database

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