

# **OLTP, OLAP**

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<http://dwhnotes.com/data-warehousing/oltp-olap>

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## **OLTP (On-Line Transaction Processing)**

This system is an application that modifies data the instance it receives and has a large number of concurrent users

## **OLAP (On-Line Analytical Processing)**

This system is an application that collects, manages, processes and presents multidimensional data for analysis and management purposes

## **Different types of OLAP**

- **ROLAP**
- **MOLAP**
- **DOLAP**
- **HOLAP**

## **OLTP vs OLAP**

### **OLTP**

- Current data
- Short database transactions

- Online Insert/Update/Delete
- Normalization is promoted
- Simple quick running queries ran by users
- High volume transactions
- Transaction recovery is necessary

## **OLAP**

- Current and Historical data
- Long database transactions
- Batch Insert/Update/Delete
- Denormalization is promoted
- Complex long running queries by system to update the aggregated data
- Low volume transactions
- Transaction recovery is not necessary

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