

DET Lab 03

Aim: Data warehouse schema generation and OLAP operations using OLAPCube tool.

Objectives:

- To build cube and different reports in OLAP Cube Tool.
- To perform different OLAP operations.

Problem Statement:

Case Study:

A music company maintains the following database.

- **Customers:** stores customer's data.
- **Orders:** stores sales orders placed by customers.
- **OrderDetails:** stores sales order line items for each sales order.
- **Album:** stores album's data.
- **Employees:** stores all employee information as well as the organization structure such as who reports to whom.

Create different type of dimensions like simple, Hierarchical, relational and time.

Identify and create few measures.

Build cube.

Generate few reports based on different dimensions and measures.

Perform OLAP operations on it. – Drill down, Roll Up, Slicing, Dicing

Theory:

Explain:

- **Data Warehouse**
- **Star, Snowflake, Fact constellation schema.**
- **Different OLAP operations**

Input: Database

Output: Multidimensional cube and data analysis reports..

Platform: Windows

Conclusion: Thus, we have learned to build multidimensional cube and OLAP operations.

FAQ's:

- 1) What are dimensions and measures?
- 2) What do you mean by slicing and dicing?
- 3) What do you mean by drill down and drill up?