

**TEACH YOURSELF**

# **OLAP Data Architecture With Dimensional Data Model**

**PREM NATH R.K.**

[www.data-e-education.com](http://www.data-e-education.com)

## **Table of Contents**

### **Data Warehouse Concept**

- Data Warehouse**
- Data Marts**
- W.H.Inmon vs. Ralph Kimball**
- OLTP vs. OLAP**
- Data Mining**
- Business Intelligence**

### **Dimensional Data Model**

### **Examine FACT**

- FACT Table**
- Types of Facts**
  - Additive Fact**
  - Semi-additive Fact**
  - Non-additive Fact**
- Types of Fact Tables**
  - Transaction Fact Table**
  - Periodic Fact Table**
  - Accumulating Fact Table**
- Aggregate FACT**
- Factless FACT**

Note: Click On Topic

**PREM NATH R.K.**

[www.data-e-education.com](http://www.data-e-education.com)

## **Table of Contents**

### **Determine Dimension**

- Dimension Table**
- Conformed Dimension**
- Role-Playing Dimension**
- Slowly Changing Dimension**
- Junk & Degenerate Dimension**

### **Data Hierarchy**

### **Surrogate Key**

### **Types of Schemas**

- STAR Schema**
- Snowflake Schema**
- FACT Constellation Schema**

### **Data Cleaning Process**

### **Development Lifecycle of Data Warehouse**

### **Data Modeling Tool Applications**

Note: Click On Topic

**PREM NATH R.K.**

[www.data-e-education.com](http://www.data-e-education.com)