**Task Assignment: Implementation of a Dimensional Data Model in database**

***Source is MySQL (If any other RDBMS is used as source, you need to tweak scripts)***

***Target can be any of Snowflake/SQL Server/MySQL or any RDBMS***

A diagram of a database

AI-generated content may be incorrect.

**Source schema:**

Source schema and sample data inserts available in <<**mysqlsampledatabase.sql**>>

**Objective**: Design and **implement a dimensional data model** in target database to support business intelligence (BI) queries for a fictional retail company. This model will form the basis for sales analytics. Use AiDE agentic AI for the tasks mentioned below

**Scenario:**

Imagine you are working as a data engineer for a retail company called RetailOne, which is in the process of developing a data warehouse to analyze its sales performance.

**Scope of Work**

1. Source **Database Setup**

* Create a new database named SalesDB(or as per naming standards) in MySQL.
* You can use the “insert scripts” to populate source database (Provided as part of source schema file) .This will act as source database for Data warehouse

2.. **Data warehouse Setup**

* Task 1 - Create a new database named SalesDWH (or as per naming standards) in target database
* Task 2 - Build a dimensional data model (star schema) using Agentic AI
* Task 3 - Load data from source database to newly built data warehouse.
* Task 4 – Build reconciliation scripts to validate the Source Vs Target records

**3. Validation**

* The generated scripts/code should be error free and should be executed in the chosen target database