

Assignment No. 7

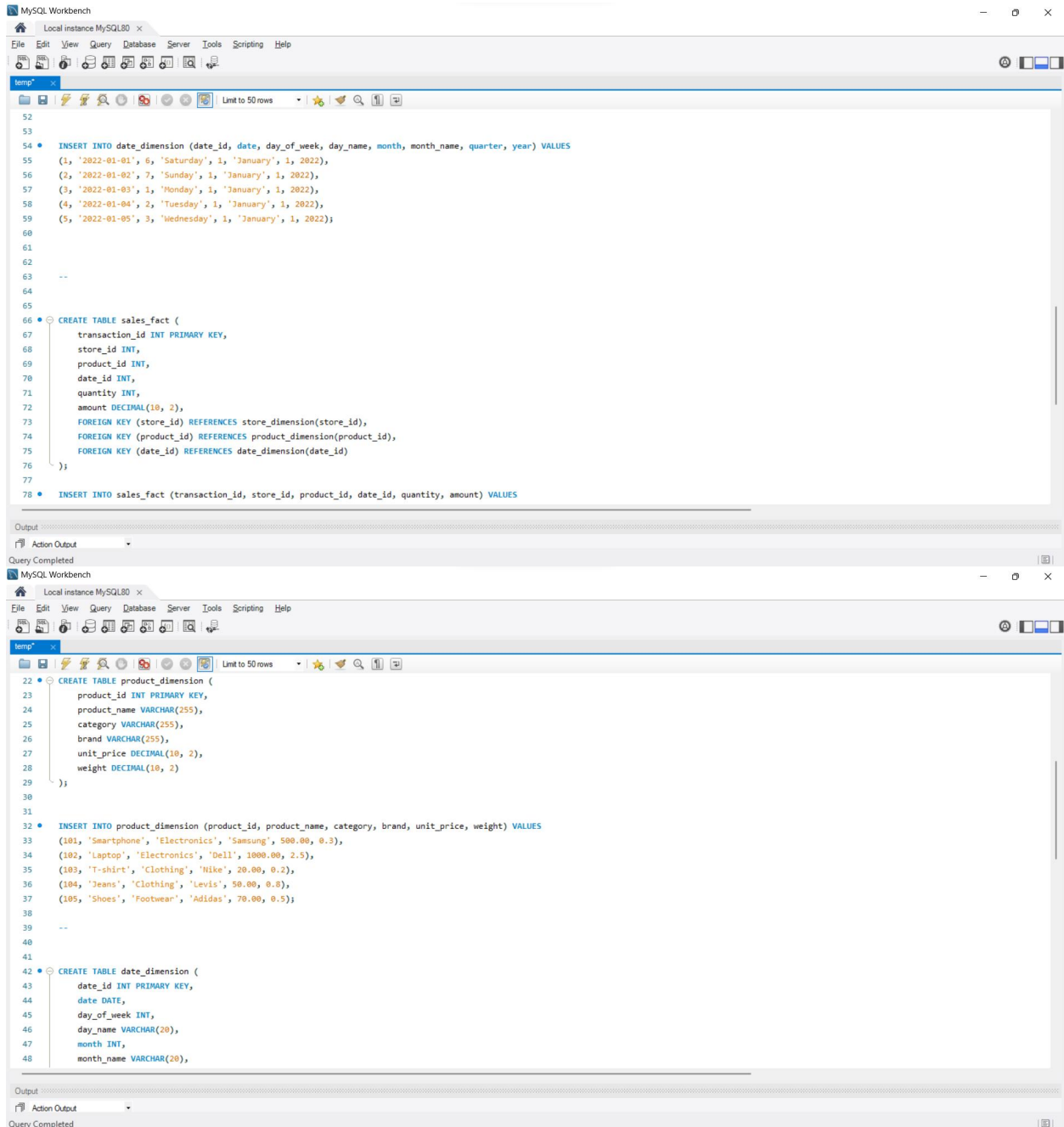
Build a Data Warehouse for X-Mart

PRN : 21510120

Batch : T6

- Title: Design and Implementation of a Data Warehousing System for X-Mart.
- Objective : To design and implement a data warehouse for a X-Mart taking into consideration the requirements of the upper hierarchy.
- Introduction: According to W. H. Inom, father of Data Warehousing, a data warehouse is subject oriented, integrated, time variant and non volatile collection of data that is required by an organization for the decision making process. Data warehouse works on Extraction, Transformation and Load mechanism.
- Theory: Data warehousing involves the process of collecting, storing, and managing data from various sources to provide valuable insights for decision-making purposes. Dimensional modeling is a popular technique used in data warehousing, where data is organized into dimensions (descriptive attributes) and facts (measurable metrics).

- Business Requirement : X-Mart, a chain of malls, requires a data warehousing system to integrate and analyze sales data from its various stores. The system should provide management with quick access to relevant information for decision-making and ensure a high return on investment (ROI) through improved operational efficiency and strategic planning.



The image displays two screenshots of the MySQL Workbench interface, showing SQL queries for a data warehouse schema.

Top Screenshot: The query editor shows the following SQL code:

```
52
53
54 • INSERT INTO date_dimension (date_id, date, day_of_week, day_name, month, month_name, quarter, year) VALUES
55 (1, '2022-01-01', 6, 'Saturday', 1, 'January', 1, 2022),
56 (2, '2022-01-02', 7, 'Sunday', 1, 'January', 1, 2022),
57 (3, '2022-01-03', 1, 'Monday', 1, 'January', 1, 2022),
58 (4, '2022-01-04', 2, 'Tuesday', 1, 'January', 1, 2022),
59 (5, '2022-01-05', 3, 'Wednesday', 1, 'January', 1, 2022);
60
61
62 --
63
64
65
66 • CREATE TABLE sales_fact (
67     transaction_id INT PRIMARY KEY,
68     store_id INT,
69     product_id INT,
70     date_id INT,
71     quantity INT,
72     amount DECIMAL(10, 2),
73     FOREIGN KEY (store_id) REFERENCES store_dimension(store_id),
74     FOREIGN KEY (product_id) REFERENCES product_dimension(product_id),
75     FOREIGN KEY (date_id) REFERENCES date_dimension(date_id)
76 );
77
78 • INSERT INTO sales_fact (transaction_id, store_id, product_id, date_id, quantity, amount) VALUES
```

Bottom Screenshot: The query editor shows the following SQL code:

```
22 • CREATE TABLE product_dimension (
23     product_id INT PRIMARY KEY,
24     product_name VARCHAR(255),
25     category VARCHAR(255),
26     brand VARCHAR(255),
27     unit_price DECIMAL(10, 2),
28     weight DECIMAL(10, 2)
29 );
30
31
32 • INSERT INTO product_dimension (product_id, product_name, category, brand, unit_price, weight) VALUES
33 (101, 'Smartphone', 'Electronics', 'Samsung', 500.00, 0.3),
34 (102, 'Laptop', 'Electronics', 'Dell', 1000.00, 2.5),
35 (103, 'T-shirt', 'Clothing', 'Nike', 20.00, 0.2),
36 (104, 'Jeans', 'Clothing', 'Levi's', 50.00, 0.8),
37 (105, 'Shoes', 'Footwear', 'Adidas', 70.00, 0.5);
38
39 --
40
41
42 • CREATE TABLE date_dimension (
43     date_id INT PRIMARY KEY,
44     date DATE,
45     day_of_week INT,
46     day_name VARCHAR(20),
47     month INT,
48     month_name VARCHAR(20),
```

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Limit to 50 rows

```
1 • CREATE DATABASE Mall;
2 • USE Mall;
3
4 --
5
6 • CREATE TABLE store_dimension (
7     store_id INT PRIMARY KEY,
8     store_name VARCHAR(255),
9     location VARCHAR(255),
10    manager_name VARCHAR(255),
11    opening_date DATE
12 );
13
14 • INSERT INTO store_dimension (store_id, store_name, location, manager_name, opening_date) VALUES
15     (1, 'X-Mart Mall A', 'New Delhi', 'Rajesh Sharma', '2022-01-01'),
16     (2, 'X-Mart Mall B', 'Mumbai', 'Priya Patel', '2022-02-15'),
17     (3, 'X-Mart Mall C', 'Bangalore', 'Amit Singh', '2022-03-20');
18
19 --
20
21
22 • CREATE TABLE product_dimension (
23     product_id INT PRIMARY KEY,
24     product_name VARCHAR(255),
25     category VARCHAR(255),
26     brand VARCHAR(255),
27     unit_price DECIMAL(10, 2),
28 );
29
30 --
31
32 • INSERT INTO product_dimension (product_id, product_name, category, brand, unit_price) VALUES
33     (1, 'Smartwatch X', 'Wearables', 'TechCorp', 199.99),
34     (2, 'Wireless Earbuds Y', 'Audio', 'SoundBuds', 149.99),
35     (3, 'Smartphone Z', 'Mobiles', 'GlowTech', 799.99),
36     (4, 'Tablet W', 'Tablets', 'GlowTech', 299.99),
37     (5, 'Smart TV V', 'Electronics', 'VisionTV', 1299.99),
38     (6, 'Laptop U', 'Computers', 'DataByte', 1499.99),
39     (7, 'Gaming Console T', 'Gaming', 'PixelPlay', 499.99),
40     (8, 'Smart Home Hub S', 'Smart Home', 'HomeConnect', 79.99),
41     (9, 'Robot Vacuum R', 'Smart Home', 'CleanBot', 249.99),
42     (10, 'Smart Lock L', 'Smart Home', 'SecureLock', 199.99);
43
44 --
45
46 • CREATE TABLE date_fact (
47     date_id INT PRIMARY KEY,
48     year INT,
49     month_name VARCHAR(255),
50     day INT
51 );
52
53 --
54
55 • INSERT INTO date_fact (date_id, year, month_name, day) VALUES
56     (1, 2022, 'January', 1),
57     (2, 2022, 'January', 2),
58     (3, 2022, 'January', 3),
59     (4, 2022, 'January', 4),
60     (5, 2022, 'January', 5),
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62     (7, 2022, 'January', 7),
63     (8, 2022, 'January', 8),
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