Experiment No. 2

Title : Implementation of all dimension table and fact table based on experiment 1 case study

(Clothing brand)

CREATE TABLE DateDim (

time\_id INT PRIMARY KEY,

date DATE,

day\_of\_week VARCHAR(10),

week INT,

month INT,

quarter INT,

year INT

);

CREATE TABLE ProductDim (

product\_id INT PRIMARY KEY,

product\_name VARCHAR(100),

category VARCHAR(50),

subcategory VARCHAR(50),

color VARCHAR(20),

size VARCHAR(10),

manufacturer VARCHAR(100)

);

CREATE TABLE StoreDim (

store\_id INT PRIMARY KEY,

store\_name VARCHAR(100),

location VARCHAR(100),

region VARCHAR(100),

store\_manager VARCHAR(100)

);

CREATE TABLE CustomerDim (

customer\_id INT PRIMARY KEY,

customer\_name VARCHAR(100),

email VARCHAR(100),

phone VARCHAR(20),

date\_of\_birth DATE,

address VARCHAR(200),

state VARCHAR(50)

);

CREATE TABLE EmployeeDim (

employee\_id INT PRIMARY KEY,

employee\_name VARCHAR(100),

job\_title VARCHAR(50),

department VARCHAR(50),

hire\_date DATE

);

CREATE TABLE Sales (

sales\_id INT AUTO\_INCREMENT PRIMARY KEY,

date\_id INT,

product\_id INT,

store\_id INT,

customer\_id INT,

quantity\_sold INT,

revenue DECIMAL(10, 2),

FOREIGN KEY (date\_id) REFERENCES DateDim(time\_id),

FOREIGN KEY (product\_id) REFERENCES ProductDim(product\_id),

FOREIGN KEY (store\_id) REFERENCES StoreDim(store\_id),

FOREIGN KEY (customer\_id) REFERENCES CustomerDim(customer\_id)

);

INSERT INTO DateDim (time\_id, date, day\_of\_week, week, month, quarter, year) VALUES

(1, '2023-10-01', 'Sunday', 40, 10, 4, 2023),

(2, '2023-10-07', 'Saturday', 41, 10, 4, 2023),

(3, '2023-10-15', 'Sunday', 42, 10, 4, 2023),

(4, '2023-10-21', 'Saturday', 43, 10, 4, 2023),

(5, '2023-10-29', 'Sunday', 44, 10, 4, 2023),

(6, '2023-11-04', 'Saturday', 45, 11, 4, 2023),

(7, '2023-11-12', 'Sunday', 46, 11, 4, 2023),

(8, '2023-11-18', 'Saturday', 47, 11, 4, 2023),

(9, '2023-11-26', 'Sunday', 48, 11, 4, 2023),

(10, '2023-12-02', 'Saturday', 49, 12, 4, 2023);

INSERT INTO StoreDim (store\_id, store\_name, location, region, store\_manager) VALUES

(1, 'Fashionista Mumbai', 'Mumbai', 'Maharashtra', 'Rohan Sharma'),

(2, 'Trendy Threads Pune', 'Pune', 'Maharashtra', 'Priya Patel'),

(3, 'Goa Garments', 'Goa', 'Goa', 'Kiran Desai'),

(4, 'Ethnic Emporium Mumbai', 'Mumbai', 'Maharashtra', 'Amit Khanna'),

(5, 'Pune Style Hub', 'Pune', 'Maharashtra', 'Neha Singh');

INSERT INTO ProductDim (product\_id, product\_name, category, subcategory, color, size, manufacturer) VALUES

(1, 'Indian Saree', 'Clothing', 'Ethnic Wear', 'Red', 'M', 'Deven Guram'),

(2, 'Kurti', 'Clothing', 'Ethnic Wear', 'Blue', 'S', 'Mihir Kambli'),

(3, 'Lehenga', 'Clothing', 'Ethnic Wear', 'Green', 'L', 'Sudanshu Karkera'),

(4, 'Sherwani', 'Clothing', 'Ethnic Wear', 'Red', 'XL', 'Shreya Jadhav'),

(5, 'Salwar Suit', 'Clothing', 'Ethnic Wear', 'Blue', 'M', 'Shubham Dalvi'),

(6, 'Jeans', 'Clothing', 'Western Wear', 'Black', '32', 'Amey Sankhe'),

(7, 'T-Shirt', 'Clothing', 'Western Wear', 'White', 'L', 'Yash Pimpalkar'),

(8, 'Saree', 'Clothing', 'Ethnic Wear', 'Red', 'S', 'Ayush Gupta'),

(9, 'Kurta', 'Clothing', 'Ethnic Wear', 'Blue', 'M', 'Ayush Gupta'),

(10, 'Dress', 'Clothing', 'Western Wear', 'Black', 'M', 'Ayush Gupta');

INSERT INTO Sales (date\_id, product\_id, store\_id, customer\_id, quantity\_sold, revenue) VALUES

(1, 1, 1, 101, 5, 5000.00),

(2, 2, 2, 102, 3, 3000.00),

(3, 3, 3, 103, 4, 4000.00),

(4, 4, 1, 104, 2, 2000.00),

(5, 5, 2, 105, 6, 6000.00),

(6, 6, 3, 106, 3, 3000.00),

(7, 7, 1, 107, 7, 7000.00),

(8, 8, 2, 108, 4, 4000.00),

(9, 9, 3, 109, 5, 5000.00),

(10, 10, 1, 110, 3, 3000.00);

INSERT INTO CustomerDim (customer\_id, customer\_name, email, phone, date\_of\_birth, address, state)

VALUES

(301, 'Rahul Mehta', 'rahul@example.com', '9876543210', '1985-09-12', '123, ABC Street, Mumbai', 'Maharashtra'),

(302, 'Priya Singh', 'priya@example.com', '8765432109', '1990-05-25', '456, XYZ Road, Pune', 'Maharashtra'),

(303, 'Aarav Desai', 'aarav@example.com', '7654321098', '1988-12-03', '789, PQR Avenue, Goa', 'Goa'),

(304, 'Neha Shah', 'neha@example.com', '6543210987', '1992-08-18', '567, LMN Lane, Mumbai', 'Maharashtra'),

(305, 'Kiran Verma', 'kiran@example.com', '5432109876', '1995-04-21', '890, UVW Circle, Pune', 'Maharashtra'),

(306, 'Sneha Reddy', 'sneha@example.com', '4321098765', '1989-11-30', '234, DEF Nagar, Goa', 'Goa'),

(307, 'Vivek Patel', 'vivek@example.com', '3210987654', '1987-07-15', '678, GHI Road, Mumbai', 'Maharashtra'),

(308, 'Manisha Gupta', 'manisha@example.com', '2109876543', '1993-02-28', '345, RST Street, Pune', 'Maharashtra'),

(309, 'Raj Mehta', 'raj@example.com', '1098765432', '1997-01-10', '901, WXY Avenue, Goa', 'Goa'),

(310, 'Amita Singh', 'amita@example.com', '0987654321', '1994-06-14', '012, JKL Lane, Mumbai', 'Maharashtra');

INSERT INTO EmployeeDim (employee\_id, employee\_name, job\_title, department, hire\_date)

VALUES

(401, 'Rahul Sharma', 'Store Manager', 'Sales', '2018-04-15'),

(402, 'Priya Kapoor', 'Sales Associate', 'Sales', '2019-10-20'),

(403, 'Amit Singh', 'Store Manager', 'Sales', '2017-06-05'),

(404, 'Neha Deshmukh', 'Sales Associate', 'Sales', '2020-01-12'),

(405, 'Kiran Patel', 'Store Manager', 'Sales', '2016-08-28'),

(406, 'Rajesh Mehta', 'Sales Associate', 'Sales', '2021-03-17'),

(407, 'Manisha Sharma', 'Store Manager', 'Sales', '2019-11-30'),

(408, 'Ajay Desai', 'Sales Associate', 'Sales', '2020-05-25'),

(409, 'Riya Malhotra', 'Store Manager', 'Sales', '2018-09-10'),

(410, 'Vikram Verma', 'Sales Associate', 'Sales', '2017-12-03');

INSERT INTO Sales (sales\_id, date\_id, product\_id, store\_id, customer\_id, quantity\_sold, revenue) VALUES

(1,1, 1, 1, 301, 5, 5000.00),

(2,2, 2, 2, 302, 3, 3000.00),

(3,3, 3, 3, 303, 4, 4000.00),

(4,4, 4, 1, 304, 2, 2000.00),

(5,5, 5, 2, 305, 6, 6000.00),

(6,6, 6, 3, 306, 3, 3000.00),

(7,7, 7, 1, 307, 7, 7000.00),

(8,8, 8, 2, 308, 4, 4000.00),

(9,9, 9, 3, 309, 5, 5000.00),

(10,10, 10, 1, 310, 3, 3000.00);