## 8. Hive: Queries, aggregation

You are a data analyst working for a fictional company called "TechMart." TechMart operates several retail stores across the country and wants to analyze their sales data stored in Hive to gain insights into their business performance. Your task is to create a Hive table, populate it with dummy sales data, and perform some basic queries to analyze the sales trends.

```
Task 1: Creating the Hive Table
CREATE TABLE IF NOT EXISTS sales (
  transaction id INT,
  product name STRING,
  category STRING,
  price DOUBLE,
  quantity INT,
  transaction date DATE
)
ROW FORMAT DELIMITED
FIELDS TERMINATED BY ',';
Task 2: Inserting Dummy Data
INSERT INTO sales VALUES
(1, 'Laptop', 'Electronics', 1200.00, 10, '2024-01-01'),
(2, 'Smartphone', 'Electronics', 800.00, 15, '2024-01-02'),
(3, 'Headphones', 'Electronics', 50.00, 20, '2024-01-03'),
(4, 'T-Shirt', 'Apparel', 20.00, 50, '2024-01-04'),
(5, 'Jeans', 'Apparel', 40.00, 30, '2024-01-05');
Task 3: Find Total sales amount per category
SELECT category, SUM(price * quantity) AS total sales amount
FROM sales
GROUP BY category;
```

```
Task 4: Find top-selling products
SELECT product_name, SUM(quantity) AS total_quantity_sold
FROM sales
GROUP BY product name
ORDER BY total quantity sold DESC
LIMIT 3;
Task 5: Get the monthly sales trend
SELECT
  MONTH(transaction_date) AS month,
  YEAR(transaction_date) AS year,
  SUM(price * quantity) AS total_sales_amount
FROM
  sales
GROUP BY
  YEAR(transaction_date), MONTH(transaction_date)
ORDER BY
  year, month;
```