Sales Table

The Sales table records information about product sales, including the quantity sold, sale date, and total price for each sale. It serves as a transactional data source for analyzing sales trends.

Query:

-- Create Sales table

```
CREATE TABLE Sales (
    sale_id INT PRIMARY KEY,
    product_id INT,
    quantity_sold INT,
    sale_date DATE,
    total_price DECIMAL(10, 2)
    FOREIGN KEY (product_id) REFERENCES Products(product_id)
);
```

-- Insert sample data into Sales table

```
INSERT INTO Sales (sale_id, product_id, quantity_sold, sale_date, total_price) VALUES (1, 101, 5, '2024-01-01', 2500.00), (2, 102, 3, '2024-01-02', 900.00), (3, 103, 2, '2024-01-02', 60.00), (4, 104, 4, '2024-01-03', 80.00), (5, 105, 6, '2024-01-03', 90.00);
```

- 1. Retrieve all columns from the Sales table.
- 2. Retrieve the sale_id and sale_date from the Sales table.
- Filter the Sales table to show only sales with a total_price greater than \$100.
- 4. Retrieve the sale_id and total_price from the Sales table for sales made on January 3, 2024.
- 5. Calculate the total revenue generated from all sales in the Sales table.
- 6. Calculate the total quantity_sold from the Sales table.
- Retrieve the sale_id, product_id, and total_price from the Sales table for sales with a quantity_sold greater than 4.
- 8. Calculate the average total_price of sales in the Sales table.

```
-- Create Sales table
CREATE TABLE Sales (
  sale id INT PRIMARY KEY,
  product_id INT,
  quantity sold INT,
  sale_date DATE,
  total_price DECIMAL(10, 2)
);
-- Insert sample data into Sales table
INSERT INTO Sales (sale id, product id, quantity sold, sale date, total price) VALUES
(1, 101, 5, '2024-01-01', 2500.00),
(2, 102, 3, '2024-01-02', 900.00),
(3, 103, 2, '2024-01-02', 60.00),
(4, 104, 4, '2024-01-03', 80.00),
(5, 105, 6, '2024-01-03', 90.00);
-- 1. Retrieve all columns from the Sales table
SELECT * FROM Sales;
-- 2. Retrieve the sale id and sale date from the Sales table
SELECT sale id, sale date FROM Sales;
-- 3. Filter the Sales table to show only sales with a total price greater than $100
SELECT * FROM Sales
WHERE total price > 100;
-- 4. Retrieve the sale id and total price from the Sales table for sales made on January 3,
2024
```

SELECT sale_id, total_price FROM Sales
WHERE sale date = '2024-01-03';

-- 5. Calculate the total revenue generated from all sales in the Sales table SELECT SUM(total_price) AS total_revenue FROM Sales;

-- 6. Retrieve the sale_id, product_id, and total_price from the Sales table for sales with a quantity_sold greater than 4

SELECT sale_id, product_id, total_price FROM Sales
WHERE quantity_sold > 4;

-- 7. Calculate the average total_price of sales in the Sales table

SELECT AVG(total_price) AS average_total_price FROM Sales;