```sql
-- Retail Store Transaction Analysis

USE rahul;
SELECT * FROM rahul.retail_transactions_dataset;

-- 1) Count the transactions in each season
SELECT season, COUNT(*) AS transaction_count
FROM rahul.retail_transactions_dataset
GROUP BY season;

-- 2) Find the average total cost of transactions
SELECT AVG(total_cost) AS Average_cost
FROM rahul.retail_transactions_dataset;

-- 3) List the transactions with a discount applied
SELECT * FROM rahul.retail_transactions_dataset
WHERE Discount_Applied = TRUE;

-- 4) Find the most common payment method
SELECT payment_method, COUNT(*) AS method_count
FROM rahul.retail_transactions_dataset
GROUP BY Payment_Method
ORDER BY method_count DESC
LIMIT 1;

-- 5) Find the transactions with more than 5 items
SELECT * FROM rahul.retail_transactions_dataset
WHERE Total_Items > 5;

-- 6) Find transactions by a specific customer (e.g., Lisa Graves)
SELECT * FROM rahul.retail_transactions_dataset
WHERE Customer_Name = 'Lisa Graves';

-- 7) List all products purchased in a specific transaction (e.g., transaction_id = 1000000001
SELECT Product FROM rahul.retail_transactions_dataset
WHERE transaction_id = 1000000001;

-- 8) Count transactions per store type
SELECT Store_Type, COUNT(*) AS transaction_per_store_count
FROM rahul.retail_transactions_dataset
GROUP BY Store_Type;

-- 9) Find the total cost of transactions for each customer category
SELECT Customer_Category, SUM(total_cost) AS total_spent
FROM rahul.retail_transactions_dataset
GROUP BY Customer_Category;

-- 10) List the cities where transactions occurred in the winter season
SELECT DISTINCT city
FROM rahul.retail_transactions_dataset
WHERE Season = 'winter';

-- 11) Find transactions from a specific city (e.g., Chicago)
SELECT * FROM rahul.retail_transactions_dataset
```

```
WHERE city = 'chicago';

-- 12) Count the number of transactions by season
SELECT season, COUNT(*) AS transaction_count_by_season
FROM rahul.retail_transactions_dataset
GROUP BY Season;

-- 13) List all unique store types
SELECT DISTINCT store_type
FROM rahul.retail_transactions_dataset;

-- 14) Find transactions for a specific product (e.g., milk)
SELECT * FROM rahul.retail_transactions_dataset
WHERE product LIKE '%milk%';

-- 15) Count the number of transactions for a specific product (e.g., bread)
SELECT COUNT(*) AS product_count
FROM rahul.retail_transactions_dataset
WHERE product LIKE '%bread%';

-- Project by RAHUL PANCHAL
```