1. Set Operations:

```sql

-- UNION: Combine results from two SELECT queries, removing duplicates

SELECT first name FROM Employees

**UNION** 

SELECT first name FROM Contractors;

-- INTERSECT: Retrieve common results from two SELECT queries

SELECT department name FROM FullTimeEmployees

**INTERSECT** 

SELECT department name FROM PartTimeEmployees;

-- EXCEPT: Get results from the first SELECT query that are not in the second query

SELECT product name FROM Products

**EXCEPT** 

SELECT product name FROM DiscontinuedProducts;

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## 2. String Operations:

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-- CONCAT: Concatenate first name and last name with a space in between

SELECT CONCAT(first name, '', last name) AS full name FROM Customers;

-- SUBSTRING: Retrieve a portion of a string

SELECT SUBSTRING(product name, 1, 10) AS short name FROM Products;

-- UPPER and LOWER: Convert text to uppercase or lowercase

SELECT UPPER(product name) AS uppercase name FROM Products;

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3. Aggregate Functions:

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 -- COUNT: Count the number of orders for each customer
 SELECT customer_id, COUNT(order_id) AS order_count
 FROM Orders
 GROUP BY customer_id;
 -- SUM: Calculate the total revenue from all orders
 SELECT SUM(order_total) AS total revenue FROM Orders;

-- AVG: Calculate the average salary of employees in each department SELECT department_id, AVG(salary) AS avg_salary FROM Employees
GROUP BY department_id;

-- MAX and MIN: Find the highest and lowest product prices
SELECT MAX(price) AS highest_price, MIN(price) AS lowest_price
FROM Products;

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