

1.How would you write a sql query to find the second highest salary from the employees table?

```
SELECT MAX(salary) AS SecondHighestSalary  
FROM employees  
WHERE salary < (SELECT MAX(salary) FROM employees);
```

2.Write a query to retrieve all duplicate records from a table based on specific column?

```
SELECT column_name, COUNT(*)  
FROM table_name  
GROUP BY column_name  
HAVING COUNT(*) > 1;
```

3.how can you find the number of employees in each department using a sql query?

```
SELECT department_id, COUNT(*) AS employee_count  
FROM employees  
GROUP BY department_id;
```

4.how would you join two tables to get matching records based on a common column?

```
SELECT *  
FROM table1  
INNER JOIN table2  
ON table1.id = table2.id;
```

5.Write a query to fetch the top 3 most expensive products from the products table?

```
SELECT *  
FROM products  
ORDER BY price DESC  
LIMIT 3;
```