--Employees table

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1. SELECT \* FROM employees;
2. SELECT name, salary FROM employees WHERE salary > 50000;
3. SELECT AVG(salary) FROM employees;
4. SELECT COUNT(\*) FROM employees WHERE department\_id = (SELECT id FROM departments WHERE name = 'Marketing');
5. SELECT COUNT(\*) FROM employees WHERE department\_id = (SELECT id FROM departments WHERE name = 'Marketing');
6. DELETE FROM employees WHERE salary < 30000;

--Departments table

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1. SELECT \* FROM departments;
2. SELECT name, manager FROM departments WHERE name = 'Finance';
3. SELECT departments.name, COUNT(\*) FROM employees INNER JOIN departments ON employees.department\_id = departments.id GROUP BY departments.name;
4. INSERT INTO departments (name, manager) VALUES ('Research', 'John Doe');

Explanation of each SQL command:

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SELECT: This keyword is used to select the columns that you want to retrieve data from. You can select one or more columns using the syntax.

FROM: This keyword is used to specify the table that you want to retrieve data from.

WHERE: This keyword is used to specify conditions that filter the data retrieved from the table.

GROUP BY: This keyword is used to group the retrieved data by one or more columns.

HAVING: This keyword is used to specify conditions that filter the grouped data.

ORDER BY: This keyword is used to sort the retrieved data in ascending (ASC) or descending (DESC) order.

INSERT INTO: The INSERT INTO command is used to add new records to a table in a database. It is used when you need to add new data to your database.

DELETE: The DELETE command is used to remove records from a table in a database. It is used when you need to remove data from your database.

COUNT: The COUNT command counts the number of rows that match a specified condition in a table. It is used when you need to know how many records in your database match specific criteria,.

AVG: The AVG command calculates the average value of a column in a table. It is used when you need to find the average value of a column in your database.