SQL INTERVIEW QUESTIONS

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A SUBQUERY IS A QUERY THAT IS EMBEDDED WITHIN ANOTHER QUERY. IT RETRIEVES DATA USED IN THE MAIN QUERY AS A FILTER OR A CONDITION

```
SELECT column1, column2
FROM table1
WHERE column3 IN (SELECT column3 FROM table2 WHERE Desired_Condition);
```



QUESTION 2: WRITE A SQL QUERY TO FIND THE SECOND-HIGHEST SALARY FROM AN EMPLOYEE TABLE.

ASSUMING WE HAVE THE FOLLOWING "EMPLOYEES" TABLE:

```
CREATE TABLE employees (
id INT PRIMARY KEY,

name VARCHAR(255) NOT NULL,

salary INT
);

INSERT INTO employees (id, name, salary) VALUES (1, 'Sangeeta', 100000);

INSERT INTO employees (id, name, salary) VALUES (2, 'Ranjita', 150000);

INSERT INTO employees (id, name, salary) VALUES (3, 'Anita', 70000);

INSERT INTO employees (id, name, salary) VALUES (4, 'Sunita', 50000);

INSERT INTO employees (id, name, salary) VALUES (5, 'Anjeeta', 90000);
```



QUESTION 2: WRITE A SQL QUERY TO FIND THE SECOND-HIGHEST SALARY FROM AN EMPLOYEE TABLE.

SELECT MAX(salary) as second_highest_salary
FROM employees
WHERE salary < (SELECT MAX(salary) FROM employees)



QUESTION 3: IN THE STUDENT TABLE,
THE MARKS COLUMN CONTAINS A
LIST OF VALUES SEPARATED BY
COMMAS. HOW CAN YOU DETERMINE
THE NUMBER OF VALUES IN THIS
COMMA-SEPARATED LIST?

```
CREATE TABLE Student (
id INT NOT NULL,
name VARCHAR(50) NOT NULL,
marks VARCHAR(255) NOT NULL,
PRIMARY KEY (id)
);
INSERT INTO Student (id, name, marks)
VALUES (1, 'Rohit', '87,92,76,89');
```



QUESTION 3: IN THE STUDENT TABLE, THE MARKS COLUMN CONTAINS A LIST OF VALUES SEPARATED BY COMMAS. HOW CAN YOU DETERMINE THE NUMBER OF VALUES IN THIS COMMA-SEPARATED LIST?

Student

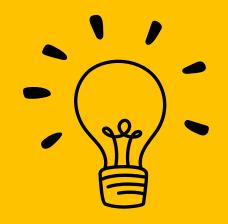
id	name	marks
1	Rohit	87,92,76,89

SELECT id, name, marks, LENGTH(marks) - LENGTH(REPLACE(marks, ',', '')) + 1 AS num_marks
FROM Student
WHERE id = 1;

Output:

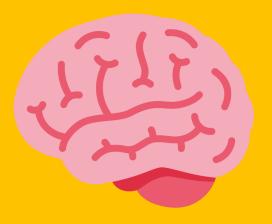
id	name	marks	num_marks
1	Rohit	87,92,76,89	4





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