

SQL INTERVIEW QUESTIONS

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@smsrishabh




QUESTION 1: WHAT IS A SUBQUERY, AND HOW IS IT USED IN SQL?

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);
```



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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);
```



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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)
```



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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');
```



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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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