

Commonly Asked SQL Questions :-

by Akarshan Kapoor

1. Write a query to add multiple columns in a table.

```
INSERT INTO users VALUES
(Null, 'abc', 2323),
(Null, 'xyz', 6969)
```

2. Write a guery to add/ delete multiple columns in a table.

```
#adding multiple columns into table#
ALTER TABLE users
ADD email varchar(255) NOT NULL UNIQUE,
ADD password varchar(255) NOT NULL;

#deleting multiple columns from table#
ALTER TABLE users
DROP COLUMN email,
DROP COLUMN password;
```

3. Write a query to find out the second highest value in a table.

```
SELECT * FROM student
ORDER BY score DESC
LIMIT 1,1; #2nd highest;
```

4. Find the max value without using order by

```
SELECT name, budget FROM movies
WHERE budget = ( SELECT MAX(budget) FROM movies );
```

5. Find managers of all employees (**FINDING HIERARCHY)

```
SELECT e1.fname, e2.fname #using_selfjoin
FROM employees e1
JOIN employees e2
ON e1.manager id = e2.emp id;
```

6. Use of Wild cards.

7. If else based questions

```
SELECT name, family_size,
CASE
```



```
WHEN family size <=2 THEN 'small'
    WHEN family size > AND family size <=4 THEN 'medium'
    ELSE 'large'
END AS 'type'
FROM family;
8. Find category- wise top value. #correlated_query
SELECT genre, name, score
FROM movies m1
WHERE score = ( SELECT MAX(score) FROM movies m2 WHERE m2.genre = m1.genre );
9. Find / Delete all duplicate values.
DELETE FROM contacts
WHERE id NOT IN ( SELECT MIN(id) FROM contacts GROUP BY first name,
last name, email )
10. Joining Tables.
SELECT name, age, group name
FROM users u
JOIN membership m
ON u.user id = m.user id
JOIN groups g
ON m.group_id = g.group_id;
11. Write a SQL query to fetch all the duplicate records in a table
SELECT user id, user name, email
SELECT *,
row number() over(partition by user name order by user id) as rn
FROM users
order by user id )x
where x.rn>1;
           --OR--
DELETE FROM employees
WHERE id NOT IN (
    SELECT MIN(id)
    FROM employees
    GROUP BY first name, last name
);
12. Fetch the details of doctors who work in the same hospital but in different specialty.
SELECT d1.*
FROM doctors d1
JOIN doctors d2
        ON d1.id <> d2.id AND
           d1.hospital = d2.hospital AND
```

d1.speciality <> d2.speciality;

13. Fetch users who logged in consecutively 3 or more times.

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