CampusX Live

SQL Interview Questions for Data Science

Common Questions

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

insert into users VALUES (null, 'Kadambari', 20,124), (null, 'Niru', 54,134), (null, 'Kirit', 65,224);

2. Write a query to add/delete multiple cols in a table.

alter table users add email varchar(255) not null, add password varchar(255) not null

alter table users drop column email, drop column password

3. Write a query to find out the 2nd highest value in a table.

select * from movies order by score desc limit 1,1 select * from movies order by score asc limit 1,1

4. Find max value without using ORDER BY.

Since the budget column is in varchar datatype 1st we need to change it into bigint

alter table movies modify column budget bigint then make use of nested queries in this case

select name, budget

from movies

where budget *(select max(budget) from movies)

5. Find managers of all employees.

Here the concept SELF JOIN is used Select e1.name,e2.fname from employees e1 join employees e2 on e1.manager_id=e2.id

6. Use of wild cards.

```
select * from movies where name like 'A____'; select * from movies where name like '%Man';
```

7. If else based questions.

```
Select name,(sibsp+Parch) as 'size',
Case
When ,(sibsp+Parch) <= 2 then 'small'
When (sibsp+Parch) >2 and (sibsp+Parch) <5 then 'medium'
End as 'type'
From titanic
```

8. Find category-wise top value.

```
select genre,name,score
from movies m1
where score = (Select max(score)
from movies m2 where m2.genre=m1.genre)
```

9. Find/delete all the duplicate values.

Select * from contacts where id not in (select min (id) from contacts group by fm,ln,email)

Delete * from contacts where id not in (select min (id) from contacts group by fm,ln,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
```