Project on My SQL

30 simple SQL Interview Queries

**1. Create tables:**

* Employee with attributes (id, name, city, department, salary)
* Department with attributes (id, name)
* Company with attributes (id, name, revenue)

**2. Add rows into Department table**

(1, 'IT'),

(2, 'Management'),

(3, 'IT'),

(4, 'Support')

**3. Add rows into Company table**

(1, 'IBM', 2000000),

(2, 'GOOGLE', 9000000),

(3, 'Apple', 10000000)

**4. Add rows into employee table:**

(1, 'David', 'London', 'IT', 80000),

(2, 'Emily', 'London', 'IT', 70000),

(3, 'Peter', 'Paris', 'IT', 60000),

(4, 'Ava', 'Paris', 'IT', 50000),

(5, 'Penny', 'London', 'Management', 110000),

(6, 'Jim', 'London', 'Management', 90000),

(7, 'Amy', 'Rome', 'Support', 30000),

(8, 'Cloe', 'London', 'IT', 110000)

5. Query all rows from Department table

6. Change the name of department with id = 1 to 'Management'

7. Delete employees with salary greater than 100 000

8. Query the names of companies

9. Query the name and city of every employee

10. Query all companies with revenue greater than 5 000 000

11. Query all companies with revenue smaller than 5 000 000

12. Query all companies with revenue smaller than 5 000 000, but you cannot use the '<' operator

13. Query all employees with salary greater than 50 000 and smaller than 70 000

14. Query all employees with salary greater than 50 000 and smaller than 70 000, but you cannot use BETWEEN

15. Query all employees with salary equal to 80 000

16. Query all employees with salary not equal to 80 000

17. Query all names of employees with salary greater than 70 000 together with employees who work on the 'IT' department.

18. Query all employees that work in city that starts with 'L'

19. Query all employees that work in city that starts with 'L' or ends with 's'

20. Query all employees that work in city with 'o' somewhere in the middle

21. Query all departments (each name only once)

22. Query names of all employees together with id of department they work in, but you cannot use JOIN

23. Query names of all employees together with id of department they work in, using JOIN

24. Query name of every company together with every department

Personal thoughts: It is kinda weird question, as there is no relationship between company and department

25. Query name of every company together with departments without the 'Support' department

26. Query employee name together with the department name that they are not working in

27. Query company name together with other companies names

LIKE:

GOOGLE Apple

GOOGLE IBM

Apple IBM

28. Query employee names with salary smaller than 80 000

29. Query names of every company and change the name of column to 'Company'

30. Query all employees that work in same department as Peter