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SQL Queries

Create the following Tables:

LOCATION					
Location_ID	Regional_Group				
122	NEW YORK				
123	DALLAS				
124	CHICAGO				
167	BOSTON				

JOB					
Job_I D	Function				
667	CLERK				
668	STAFF				
669	ANALYST				
670	SALESPERSON				
671	MANAGER				
672	PRESIDENT				

DEPARTMENT							
Department_ID	Name	Location_ID					
10	ACCOUNTING	122					
20	RESEARCH	124					
30	SALES	123					
40	OPERATIONS	167					

EMPLOYEE									
EMPLOYE E_ID	LAST_N AME	FIRST_NA ME	MIDDL E_NA ME	JOB_I D	MANAG ER_ID	HIREDATE	SALAR Y	СОМ	DEPARTM ENT_ID
7369	SMITH	JOHN	Q	667	7902	17-DEC-84	800	NUL L	20
7499	ALLEN	KEVIN	J	670	7698	20-FEB-85	1600	300	30
7505	DOYLE	JEAN	K	671	7839	04-APR-85	2850	NUL L	30
7506	DENNI S	LYNN	S	671	7839	15-MAY-85	2750	NUL L	30
7507	BAKER	LESLIE	D	671	7839	10-JUN-85	2200	NUL L	40
7521	WARK	CYNTHI A	D	670	7698	22-FEB-85	1250	500	30



Queries based on the above tables:

Simple Queries:

- 1. List all the employee details
- 2. List all the department details
- 3. List all job details
- 4. List all the locations
- 5. List out first name, last name, salary, commission for all employees
- List out employee_id, last name, department id for all employees and rename employee id as "ID of the employee", last name as "Name of the employee", department id as "department ID"
- 7. List out the employees annual salary with their names only.

Where Conditions:

- 8. List the details about "SMITH"
- 9. List out the employees who are working in department 20
- 10. List out the employees who are earning salary between 3000 and 4500
- 11. List out the employees who are working in department 10 or 20
- 12. Find out the employees who are not working in department 10 or 30
- 13. List out the employees whose name starts with "S"
- 14. List out the employees whose name start with "S" and end with "H"
- 15. List out the employees whose name length is 4 and start with "S"
- 16. List out the employees who are working in department 10 and draw the salaries more than 3500
- 17. list out the employees who are not receiving commission.

Order By Clause:

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- 18. List out the employee id, last name in ascending order based on the employee id.
- 19. List out the employee id, name in descending order based on salary column
- 20. list out the employee details according to their last_name in ascending order and salaries in descending order

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21. list out the employee details according to their last_name in ascending order and then on department_id in descending order.

Group By & Having Clause:

- 22. How many employees who are working in different departments wise in the organization
- 23. List out the department wise maximum salary, minimum salary, average salary of the employees
- 24. List out the job wise maximum salary, minimum salary, average salaries of the employees.
- 25. List out the no. of employees joined in every month in ascending order.
- 26. List out the no. of employees for each month and year, in the ascending order based on the year, month.
- 27. List out the department id having atleast four employees.
- 28. How many employees in January month.
- 29. How many employees who are joined in January or September month.
- 30. How many employees who are joined in 1985.
- 31. How many employees joined each month in 1985.
- 32. How many employees who are joined in March 1985.
- 33. Which is the department id, having greater than or equal to 3 employees joined in April 1985?

Sub-Queries

- 34. Display the employee who got the maximum salary.
- 35. Display the employees who are working in Sales department
- 36. Display the employees who are working as "Clerk".
- 37. Display the employees who are working in "New York"
- (38. Find out no.of employees working in "Sales" department.
- 39. Update the employees salaries, who are working as Clerk on the basis of 10%.
- 40. Delete the employees who are working in accounting department.
- 41. Display the second highest salary drawing employee details.
- 42. Display the Nth highest salary drawing employee details

Sub-Query operators: (ALL, ANY, SOME, EXISTS)



- 43. List out the employees who earn more than every employee in department 30.
- 44. List out the employees who earn more than the lowest salary in department 30.
- 45. Find out whose department has not employees.
- 46. Find out which department does not have any employees.

Co-Related Sub Queries:

47. Find out the employees who earn greater than the average salary for their department.

JOINS

Simple join

- 48. List our employees with their department names
- 49. Display employees with their designations (jobs)
- 50. Display the employees with their department name and regional groups.
- 51. How many employees who are working in different departments and display with department name.
 - 52. How many employees who are working in sales department.
- 53. Which is the department having greater than or equal to 5 employees and display the department names in ascending order.
 - 54. How many jobs in the organization with designations.
 - 55. How many employees working in "New York".

Non - Equi Join:

- 56. Display employee details with salary grades.
- 57. List out the no. of employees on grade wise.
- 58. Display the employ salary grades and no. of employees between 2000 to 5000 range of salary.

Self Join:

- 59. Display the employee details with their manager names.
- 60. Display the employee details who earn more than their managers salaries.
- 61. Show the no. of employees working under every manager.

Outer Join:

- 61. Display employee details with all departments.
- 62. Display all employees in sales or operation departments.



Set Operators:

- 63. List out the distinct jobs in Sales and Accounting Departments.
- 64. List out the ALL jobs in Sales and Accounting Departments.
- attlesting bangalore og mail. com 986991918 65. List out the common jobs in Research and Accounting Departments in ascending order.



Answers

- 1. SQL > Select * from employee;
- 2. SQL > Select * from department;
- 3. SQL > Select * from job;
- 4. SQL > Select * from loc;
- 5. SQL > Select first_name, last_name, salary, commission from employee;
- 6. SQL > Select employee_id "id of the employee", last_name "name", department id as "department id" from employee;
- 7. SQL > Select last_name, salary*12 "annual salary" from employee
- 8. SQL > Select * from employee where last_name='SMITH';
- 9. SQL > Select * from employee where department_id=20
- 10. SQL > Select * from employee where salary between 3000 and 4500
- 11. SQL > Select * from employee where department_id in (20,30)
- 12. SQL > Select last_name, salary, commission, department_id from employee where department_id not in (10,30)
- 13. SQL > Select * from employee where last_name like 'S%'
- 14. SQL > Select * from employee where last_name like 'S%H'
- 15. SQL > Select * from employee where last_name like 'S___'
- 16. SQL > Select * from employee where department_id=10 and salary>3500
- 17. SQL > Select * from employee where commission is Null
- 18. SQL > Select employee_id, last_name from employee order by employee_id
- 19. SQL > Select employee_id, last_name, salary from employee order by salary desc
- 20. SQL > Select employee_id, last_name, salary from employee order by last_name, salary desc
- 21. SQL > Select employee_id, last_name, salary from employee order by last_name, department_id desc
- 22. SQL > Select department_id, count(*), from employee group by department_id
- 23. SQL > Select department_id, count(*), max(salary), min(salary), avg(salary) from employee group by department_id
- 24. SQL > Select job_id, count(*), max(salary), min(salary), avg(salary) from employee group by job_id
- 25. SQL > Select to_char(hire_date, 'month') month, count(*) from employee group by to_char(hire_date, 'month') order by month
- 26. SQL > Select to_char(hire_date,'yyyy') Year, to_char(hire_date,'mon') Month, count(*) "No. of employees" from employee group by to_char(hire_date,'yyyy'), to_char(hire_date,'mon')
- 27. SQL > Select department_id, count(*) from employee group by department_id having count(*)>=4
- 28. SQL > Select to_char(hire_date,'mon') month, count(*) from employee group by to_char(hire_date,'mon') having to_char(hire_date,'mon')='jan'

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- 29. SQL > Select to_char(hire_date,'mon') month, count(*) from employee group by to_char(hire_date,'mon') having to_char(hire_date,'mon') in ('jan','sep')
- 30. SQL > Select to_char(hire_date,'yyyy') Year, count(*) from employee group by to_char(hire_date,'yyyy') having to_char(hire_date,'yyyy')=1985
- 31. SQL > Select to_char(hire_date,'yyyy')Year, to_char(hire_date,'mon') Month, count(*) "No. of employees" from employee where to_char(hire_date,'yyyy')=1985 group by to_char(hire_date,'yyyy'),to_char(hire_date,'mon')
- 32. SQL > Select to_char(hire_date,'yyyy')Year, to_char(hire_date,'mon') Month, count(*) "No. of employees" from employee where to_char(hire_date,'yyyy')=1985 and to_char(hire_date,'mon')='mar' group by to_char(hire_date,'yyyy'),to_char(hire_date,'mon')
- 33. SQL > Select department_id, count(*) "No. of employees" from employee where to_char(hire_date,'yyyy')=1985 and to_char(hire_date,'mon')='apr' group by to_char(hire_date,'yyyy'), to_char(hire_date,'mon'), department_id having count(*)>=3
- 34. SQL > Select * from employee where salary=(select max(salary) from employee)
- 35. SQL > Select * from employee where department_id IN (select department_id from department where name='SALES')
- 36. SQL > Select * from employee where job_id in (select job_id from job where function='CLERK'
- 37. SQL > Select * from employee where department_id=(select department_id from department where location_id=(select location_id from location where regional_group='New York'))
- 38. SQL > Select * from employee where department_id=(select department_id from department where name='SALES' group by department_id)
- 39. SQL > Update employee set salary=salary*10/100 where job_id=(select job_id from job where function='CLERK')
- 40. SQL > delete from employee where department_id=(select department_id from department where name='ACCOUNTING')
- 41. SQL > Select * from employee where salary=(select max(salary) from employee where salary <(select max(salary) from employee))
- 42. SQL > Select distinct e.salary from employee where & no-1=(select count(distinct salary) from employee where sal>e.salary)
- 43. SQL > Select * from employee where salary > all (Select salary from employee where department_id=30)
- 44. SQL > Select * from employee where salary > any (Select salary from employee where department_id=30)
- 45. SQL > Select employee_id, last_name, department_id from employee e where not exists (select department_id from department d where d.department_id=e.department_id)
- 46. SQL > Select name from department d where not exists (select last_name from employee e where d.department_id=e.department_id)
- 47. SQL > Select employee_id, last_name, salary, department_id from employee e where salary > (select avg(salary) from employee where department_id=e.department_id)
- 48. SQL > Select employee_id, last_name, name from employee e, department d where e.department_id=d.department_id



- 49. SQL > Select employee_id, last_name, function from employee e, job j where e.job_id=j.job_id
- 50. SQL > Select employee_id, last_name, name, regional_group from employee e, department d, location I where e.department_id=d.department_id and d.location_id=l.location_id
- 51. SQL > Select name, count(*) from employee e, department d where d.department_id=e.department_id group by name
- 52. SQL > Select name, count(*) from employee e, department d where d.department_id=e.department_id group by name having name='SALES'
- 53. SQL > Select name, count(*) from employee e, department d where d.department_id=e.department_id group by name having count (*)>=5 order by name
- 54. SQL > Select function, count(*) from employee e, job j where j.job_id=e.job_id group by function
- 55. SQL > Select regional_group, count(*) from employee e, department d, location I where e.department_id=d.department_id and d.location_id=I.location_id and regional_group='NEW YORK' group by regional_group
- 56. SQL > Select employee_id, last_name, grade_id from employee e, salary_grade s where salary between lower_bound and upper_bound order by last_name
- 57. SQL > Select grade_id, count(*) from employee e, salary_grade s where salary between lower_bound and upper_bound group by grade_id order by grade_id desc
- 58. SQL > Select grade_id, count(*) from employee e, salary_grade s where salary between lower_bound and upper_bound and lower_bound>=2000 and lower_bound<=5000 group by grade_id order by grade_id desc
- 59. SQL > Select e.last_name emp_name, m.last_name, mgr_name from employee e, employee m where e.manager_id=m.employee_id
- 60. SQL > Select e.last_name emp_name, e.salary emp_salary, m.last_name, mgr_name, m.salary mgr_salary from employee e, employee m where e.manager_id=m.employee_id and m.salary
- 61. SQL > Select m.manager_id, count(*) from employee e, employee m where e.employee_id=m.manager_id group by m.manager_id
- 62. SQL > Select last_name, d.department_id, d.name from employee e, department d where e.department_id(+)=d.department_id
- 63. SQL > Select last_name, d.department_id, d.name from employee e, department d where e.department_id(+)=d.department_id and d.department_id in (select department_id from department where name IN ('SALES','OPERATIONS'))
- 64. SQL > Select function from job where job_id in (Select job_id from employee where department_id=(select department_id from department where name='SALES')) union Select function from job where job_id in (Select job_id from employee where department_id=(select department_id from department where name='ACCOUNTING'))
- 65. SQL > Select function from job where job_id in (Select job_id from employee where department_id=(select department_id from department where name='SALES')) union all Select function from job where job_id in (Select job_id from employee where department_id=(select department_id from department where name='ACCOUNTING'))
- 66. SQL > Select function from job where job_id in (Select job_id from employee where department_id=(select department_id from department where

Bikku name='RESEARCH')) intersect Select function from job where job_id in (Select job_id from employee where department_id=(select department_id from department where name='ACCOUNTING')) order by function etlitesting bangalore @ grail. com 988691918