

1-Tut : SQL query - 11

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Problem Statement:

Fetch the Number of employees for each role/Job.

Information about the table:

Attributes list:

EmpCode :- Unique code for each employee.
EmpFName :- Employee's First Name.
EmpLName :- Employee's Last Name.
Job:- Designation in the company..
Manager :- Manager of each employee.
HireDate:- The date when the employee was hired.
Salary:- Salary offered in USD per month.
DeptCode:- Departments Code for respective departments.

DATA TYPES

INT
VARCHAR
VARCHAR
VARCHAR
CHAR
DATE
INT
INT

Table Employee data:

EmpCode	EmpFName	EmpLName	Job	Manager	HireDate	Salary	DeptCode
9369	TONY	STARK	SOFTWARE ENGINEER	7902	1980-12-17	2800	20
9499	TIM	ADOLF	SALESMAN	7698	1981-02-20	1600	30
9566	KIM	JARVIS	MANAGER	7839	1981-04-02	3570	20
9654	SAM	MILES	SALESMAN	7698	1981-09-28	1250	30
9782	KEVIN	HILL	MANAGER	7839	1981-06-09	2940	10
9788	CONNIE	SMITH	ANALYST	7566	1982-12-09	3000	20
9839	ALFRED	KINSLEY	PRESIDENT	7566	1981-11-17	5000	10
9844	PAUL	TIMOTHY	SALESMAN	7698	1981-09-08	1500	30
9876	JOHN	ASGHAR	SOFTWARE ENGINEER	7788	1983-01-12	3100	20
9900	ROSE	SUMMERS	TECHNICAL LEAD	7698	1981-12-03	2950	20
9902	ANDREW	FAULKNER	ANALYST	7566	1981-12-03	3000	10
9934	KAREN	MATTHEWS	SOFTWARE ENGINEER	7782	1982-01-23	3300	20
9591	WENDY	SHAWN	SALESMAN	7698	1981-02-22	500	30
9698	BELLA	SWAN	MANAGER	7839	1981-05-01	3420	30
9777	MADII	HIMBURY	ANALYST	7839	1981-05-01	2000	NULL
9860	ATHENA	WILSON	ANALYST	7839	1992-06-21	7000	50

Output Table Structure:

Job	count(job)
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Query : **SELECT Job,COUNT(Job) FROM Employee_data GROUP BY Job;**

2-Tut : SQL query - 12

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Problem Statement:

List out the number of employees for each distinct Role corresponding with their department code.

Output Table Structure:

Job	DeptCode	count(*)
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Query : **SELECT Job,DeptCode,COUNT(*) FROM Employee_data GROUP BY Job,DeptCode;**

3-Tut : SQL query - 13

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Problem Statement:

List down the maximum salaries for each Job role

Output Table Structure:

Job	max(Salary)
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Query : **SELECT Job,MAX(Salary) FROM Employee_data GROUP BY Job;**

4-Tut : SQL query - 14

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Problem Statement:

List down the average salary given out for each department for specific Job roles.

Output Table Structure:

Job	DeptCode	avg(Salary)
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Query : **SELECT Job,DeptCode,AVG(Salary) FROM Employee_data GROUP BY Job,DeptCode;**

5-Tut : SQL query - 15

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Problem Statement:

List down the minimum salaries offered for each job role in each department, although list them in descending order based on the max salaries being offered for that role.

Output Table Structure:

Job	DeptCode	min(Salary)
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Query : `SELECT Job,DeptCode,MIN(Salary) FROM Employee_data GROUP BY Job,DeptCode ORDER BY MAX(Salary) DESC;`

6-Tut : SQL query - 19

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Problem Statement:

List down the jobs having an average salary more than 3000 USD.

Output Table Structure:

Job

Query : `SELECT Job FROM Employee_data GROUP BY Job HAVING AVG(Salary) > 3000;`

7-Tut : SQL query - 20

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Problem Statement:

List down the department's codes that pay their employees (combined) more than 5000 USD and list them in ascending order of the minimum salary offered by each department.

Query : `SELECT DeptCode FROM Employee_data GROUP BY DeptCode HAVING SUM(salary) > 5000 ORDER BY MIN(Salary) ASC;`

8-Tut : SQL query - 21

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Problem Statement:

List down the managers handling more than 2 employees, and make sure those employees don't belong to departments 10 and 20.

Output Table Structure:

Manager	count(Manager)
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Query : `SELECT Manager,COUNT(Manager) FROM Employee_data WHERE DeptCode NOT IN (10,20) GROUP BY Manager HAVING COUNT(Manager) > 2;`

9-Tut : SQL query - 22

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Problem Statement:

For All the Analyst jobs list down the maximum salaries offered to them in different departments and under different managers, list all the details in ascending order based on the combined salary given out by that department.

Output Table Structure:

Job	DeptCode	Manager	max(Salary)
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Query : `SELECT Job,DeptCode,Manager,MAX(Salary) FROM Employee_data WHERE Job IN ('ANALYST') GROUP BY Job,DeptCode,Manager ORDER BY SUM(Salary) ASC;`