* 1. *Count total no. of employees.*

*Ans: select count(\*) “Total No of Employees” from emp;*

* 1. *Determine the maximum and minimum salary.*

*Ans : select max(sal) “Maximum Salary” ,min(sal) “Minimum Salary” from emp;*

* 1. *Display the count of employees having salary greater than 3000.*

*Ans : select count(sal) from emp where sal>3000;*

* 1. *Print department wise count of employees*

*Ans : select count(\*) from emp group by job;.*

* 1. *Display employee details who earn maximum and minimum salary.*

*Ans: select max(sal) “Maximum Salary” ,min(sal) “Minimum Salary” from emp;*

* 1. *Print jobwise total salary.*

*Ans: select job, sum(sal) "Total Salary" from emp group by job ;*

* 1. *Print department wise maximum salary.*

*Ans : select job, max(sal) "Maximum Salary" from emp group by job ;*

* 1. *Print jobwise average salary.*

*Ans: select job,avg(sal) “Average Salary” from emp group by job;*

* 1. *Print count of employee working in department 20.*

*Ans : select deptno, count(\*) from emp where deptno =20;*

* 1. *Print count of employee working in department 10 having job as MANAGER..*

*Ans: select deptno, count(\*),job from emp where (deptno =10) and (job ='manager');*

* 1. *Print count of employee working in department 20 having comm as null.*

*Ans: select deptno, count(\*),comm from emp where (deptno =20) and (comm is null);*

*12. Print names of employees working in ANALYST department having maximum salary.*

*Ans : select ename, job, max(sal) from emp group by sal having job='Analyst';*

* 1. *Print employee details having salary less than average salary of MANAGER.*

*Ans: select \* from emp where sal< (select avg(sal) from emp where job = 'manager');*

* 1. *Give SQL statement to find the average annual salary per job in each detp.*

*Ans: select job,count(job), (sum(sal)\*12/count(job))"Avg Annual Salary" from emp group by job;*

* 1. *Count the number of people in the dept 30 who receive a salary and the no.of people who receive comm.*

*Ans: select deptno, count(\*),sal,comm from emp where( deptno =30 and comm is not null);*

* 1. *Calculate the avg, min and max salary of those groups of employees having the job as CLERK or MANAGER.*

*Ans: select avg(sal),max(sal),min(sal),job,count(job) from emp where job in("clerk","manager") group by job;*

* 1. *Display the deptno of departments which have more than one CLERK.*

*Ans : select deptno,job,count(\*) from emp where job ='clerk' group by deptno having count(\*)>1;*

* 1. *List names and hiredates of employees who were hired in the month of December*

*Ans: select ename,hiredate from emp where month(hiredate)='12';*

* 1. *List names and hiredate of employees hired in the year 1980*

*Ans: select ename,hiredate from emp where year(hiredate)='1980';*

* 1. *Display names and jobs of the people separated by a hyphen. Capitalize the first character of name and job.*

*Ans: select concat(substring(ucase(ename),1,1),substring(lcase(ename),2),'-',substring(ucase(job),1,1),substring(lcase(job),2)) from emp;*

* 1. *List employee numbers, names and hiredates of the people working in the department number 20, display the hiredates in the dd/mm/yy format*

*Ans: select empno,ename,hiredate,concat(day(hiredate),'/',month(hiredate),'/',year(hiredate))"dd/mm/yy format" from emp where deptno=20;*

* 1. *Find number of months the president has worked for the company.*

*Ans: select month(hiredate) from emp where job ='president';*

* 1. *Find the day of the week on which SMITH joined*

*Ans: select dayofweek(hiredate) from emp where ename ='smith';*

* 1. *Find the time of the day in which ADAMS joined*

*Ans:*

* 1. *Find day of month on which KING joined*

*Ans: select date\_format(hiredate,'%e') "Day of Month" from emp where ename = 'king';*

*25 .Find out month on which MARTIN joined*

*Ans: select month(hiredate)"MONTH" from emp where ename='martin';*

*26.Find out which quarter of the year the employees joined. Display their number and names as well*

*Ans: select empno,ename,quarter(hiredate) from emp;*

* 1. *Retrieve ANALYST records with the hiredate formatted as – ‘The 3rd of December 1984’*

*Ans: select job, concat(" The " ,date\_format(hiredate,'%D'), " of ", date\_format(hiredate,'%M'),' ',year(hiredate))" Date" from emp where job = 'Analyst';*

* 1. *List all names, jobs, and a job classification number, which is to be assigned by you. Translate the value started in each job field to a job classification number. This is to be done as follows-*

1. *CLERK*
2. *MANAGER*
3. *PRESIDENT*
4. *OTHER*
   1. *Display the length of the longest employees name*

*Ans: select ename, length(ename) from emp order by length(ename) desc limit 1 ;*

* 1. *Write a query to list the length of service of the employees (of the form n years and m months).*

*Ans:*

* 1. *How many employees who are joined in 1981.*

*Ans: select count(hiredate) from emp where year(hiredate) = 1981;*

* 1. *How many employees joined each month in 1981.*

*Ans: select count(month(hiredate)) from emp where year(hiredate) = 1982;*

* 1. *How many employees who are joined in March 1982.*

*Ans: .* *select count(\*) from emp where month(hiredate) =3 and year(hiredate) =1982;*

* 1. *Find the total sales amount*

*Ans: select sum(amount)"Total" from sales;*

* 1. *Find the customer-wise lowest and highest sales amount*

*Ans: select custname,max(amount),min(amount) from sales group by custname;*

* 1. *Find product-wise lowest, highest and total sales.*

*Ans: select prodname ,max(amount),min(amount),sum(amount) from sales group by prodname;*

* 1. *Find department-wise average salary for all the departments employing more than three employees*

*Ans :* *select deptno, count(\*),avg(sal) from emp group by deptno having count(\*) >3;*

* 1. *Find the customer-wise total sales for all the customers except ‘TKB SPORT SHOP’ who came to purchase various sports items maximum four times.*

*Ans :*

* 1. *Display the highest, lowest, sum and average salary for all employees. Label the columns appropriately.*

*Ans : select max(sal) “Highest Salary”,min(sal) “Lowest Salary”,sum(sal) “Total Salary” ,avg(sal) “Average Salary” from emp;*

* 1. *Modify the above query and display the output for each job type.*

*Ans : select job, max(sal) "Highest Salary",min(sal) "Lowest Salary",sum(sal) "Total Salary" ,avg(sal) "Average Salary" from emp group by job;*

* 1. *List names of people who have salary less than the average salary for dept 20*

*Ans : select ename,sal from emp where sal< (select avg(sal) from emp where deptno=20);*

* 1. *Find the average annual salary per job in each department.*

*Ans: select job, avg(sal\*12) from emp group by job;*

* 1. *Count the number of people in department 30 who receive a salary and the number of people who receive a commission*

*Ans: select deptno,sal, count(\*),comm from emp where (deptno =30) and (comm is not null);*

* 1. *Compute the average, minimum and maximum salaries of these groups of employees having job as Clerk or manager, Display the job as well*

*Ans: select job,avg(sal),min(sal),max(sal) from emp group by job having job in('clerk','manager');*

* 1. *Write an SQL command that displays 2nd highest salary paid*

*Ans: select sal "2nd Highest Salary" from emp order by sal desc limit 1,1;*

* 1. *Write a query to find the employees who are earning the maximum salary in their departments.*

*Ans: select job, max(sal) from emp group by job;*

* 1. *Write a query to find the salesman number (repid) who has achieved the maximum total sales among the entire salesman.*

*Ans: select max(amount),repid from sales group by repid;*

* 1. *List the highest salary paid for each job.*

*Ans: select job,max(sal) from emp group by job;*

* 1. *Find the most recently hired employee in each department.*

*Ans: select job,hiredate from emp group by job order by hiredate desc;*

* 1. *In which year did most people join the company? Display the year and the number of employees.*

*Ans: select count(\*),year(hiredate) from emp group by year(hiredate) order by count(\*) desc limit 1;*

* 1. *Write a query to display employee name whose name occurs only once in the table.*

*Ans: select distinct ename from emp;*

* 1. *Write a query to display all the details from dept table along with the no. of employee working in each dept.*

*Ans: select deptno,count(\*) from emp group by deptno;*

* 1. *Find out which department does not have any employees.*

*Ans: select \* from dept where not exists(select deptno from emp where emp.deptno=dept.deptno);*

*select \* from dept where deptno not in(select deptno from emp where emp.deptno=dept.deptno);*

* 1. *List out the no. of employees joined in every month in ascending order.*

*Ans: select count(\*),month(hiredate) from emp group by month(hiredate) order by month(hiredate);*