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

***select count(empno) from emp;***

*Determine the maximum and minimum salary.*

***select max(sal), min(sal) from emp;***

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

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

* 1. *Print department wise count of employees.*

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

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

***select \* from emp where sal=(select max(sal) from emp);***

***select \* from emp where sal=(select min(sal) from emp);***

* 1. *Print jobwise total salary.*

***select job, sum(sal) as total\_sal from emp group by job;***

* 1. *Print department wise maximum salary.*

***select deptno, max(sal) from emp group by deptno;***

* 1. *Print jobwise average salary.*

***select job,avg(sal) from emp group by job;***

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

***select count(empno) from emp where deptno=20;***

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

***select count(\*) as emp\_count from emp where deptno=10 and job="manager"***

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

***SELECT COUNT(\*) AS count\_dept\_20\_comm\_null FROM EMP WHERE deptno = 20 AND comm IS NULL;***

* 1. *Print names of employees working in ACCOUNTS department having maximum salary.*

***SELECT name FROM EMP WHERE deptno = (SELECT deptno FROM DEPT WHERE dept\_name = 'ACCOUNTS') AND sal = (SELECT MAX(sal) FROM EMP WHERE deptno = (SELECT deptno FROM DEPT WHERE dept\_name = 'ACCOUNTS'));***

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

*select \* from emp where sal<(select avg(sal) from emp where job="manager");*

***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.*

***SELECT deptno, job, AVG(sal \* 12) AS average\_annual\_salary FROM EMP GROUP BY deptno, job;***

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

***SELECT COUNT(CASE WHEN sal IS NOT NULL THEN 1 END) AS count\_salary, COUNT(CASE WHEN comm IS NOT NULL THEN 1 END) AS count\_comm FROM EMP WHERE deptno = 30;***

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

***SELECT job, AVG(sal) AS avg\_salary, MIN(sal) AS min\_salary, MAX(sal) AS max\_salary FROM EMP WHERE job IN ('CLERK', 'MANAGER');***

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

***SELECT deptno 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*

***SELECT name, hiredate FROM EMP WHERE EXTRACT(MONTH FROM hiredate) = 12;***

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

***SELECT name, hiredate FROM EMP WHERE EXTRACT(YEAR FROM hiredate) = 1980;***

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

***SELECT INITCAP(name) || ' - ' || INITCAP(job) AS name\_job 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*

***SELECT empno, name, TO\_CHAR(hiredate, 'DD/MM/YY') AS hiredate FROM EMP WHERE deptno = 20;***

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

***SELECT MONTHS\_BETWEEN(SYSDATE, hiredate) AS months\_worked FROM EMP WHERE job = 'PRESIDENT';***

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

***SELECT TO\_CHAR(hiredate, 'Day') AS day\_of\_week FROM EMP WHERE name = 'SMITH'****;*

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

***SELECT TO\_CHAR(hiredate, 'HH24:MI:SS') AS join\_time FROM EMP WHERE name = 'ADAMS';***

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

***SELECT TO\_CHAR(hiredate, 'DD') AS day\_of\_month FROM EMP WHERE name = 'KING';***

* 1. *Find out month on which MARTIN joined*

***select to\_char(hiredate, 'mm') as month\_of\_joining from emp where name = 'martin';***

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

***select extract(quarter from hiredate) as quarter, name from emp;***

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

***select name, to\_char(hiredate, 'the fm999th of month yyyy') as formatted\_hiredate 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*

***SELECT name, job,***

***CASE***

***WHEN job = 'CLERK' THEN 'A'***

***WHEN job = 'MANAGER' THEN 'B'***

***WHEN job = 'PRESIDENT' THEN 'C'***

***ELSE 'D'***

***END AS job\_classification***

***FROM EMP;***

* 1. *Display the length of the longest employees name*

***SELECT MAX(LENGTH(name)) AS longest\_name\_length FROM EMP;***

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

***SELECT TRUNC(MONTHS\_BETWEEN(SYSDATE, hiredate)/12) || ' years and ' || MOD(MONTHS\_BETWEEN(SYSDATE, hiredate), 12) || ' months' AS length\_of\_service FROM EMP;***

* 1. *How many employees who are joined in 1985.*

***SELECT COUNT(\*) AS employees\_joined\_1985 FROM EMP WHERE EXTRACT(YEAR FROM hiredate) = 1985;***

* 1. *How many employees joined each month in 1985.*

***SELECT EXTRACT(MONTH FROM hiredate) AS month, COUNT(\*) AS count FROM EMP WHERE EXTRACT(YEAR FROM hiredate) = 1985 GROUP BY EXTRACT(MONTH FROM hiredate);***

* 1. *How many employees who are joined in March 1985.*

***SELECT COUNT(\*) AS employees\_joined\_march\_1985 FROM EMP WHERE EXTRACT(MONTH FROM hiredate) = 3 AND EXTRACT(YEAR FROM hiredate) = 1985;***

* 1. *Find the total sales amount*

***SELECT SUM(amount) AS total\_sales FROM SALE;***

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

***SELECT customer\_id, MIN(amount) AS lowest\_sales, MAX(amount) AS highest\_sales FROM SALE GROUP BY customer\_id;***

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

***SELECT product\_id, MIN(amount) AS lowest\_sales, MAX(amount) AS highest\_sales, SUM(amount) AS total\_sales FROM SALE GROUP***

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

***SELECT product\_id, MIN(amount) AS lowest\_sales, MAX(amount) AS highest\_sales, SUM(amount) AS total\_sales FROM SALE GROUP BY product\_id;***

* 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.*

***SELECT deptno, AVG(sal) AS average\_salary FROM EMP GROUP BY deptno HAVING COUNT(\*) > 3;***

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

***SELECT customer\_id, SUM(amount) AS total\_sales FROM SALE WHERE customer\_id <> 'TKB SPORT SHOP' GROUP BY customer\_id HAVING COUNT(\*) <= 4;***

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

***SELECT MAX(sal) AS highest\_salary, MIN(sal) AS lowest\_salary, SUM(sal) AS total\_salary, AVG(sal) AS average\_salary FROM EMP****;*

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

***SELECT job, MAX(sal) AS highest\_salary, MIN(sal) AS lowest\_salary, SUM(sal) AS total\_salary, AVG(sal) AS average\_salary FROM EMP GROUP BY job;***

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

***SELECT name FROM EMP WHERE sal < (SELECT AVG(sal) FROM EMP WHERE deptno = 20);***

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

***SELECT \* FROM EMP e1 WHERE sal = (SELECT MAX(sal) FROM EMP e2 WHERE e1.deptno = e2.deptno);***

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

***SELECT repid FROM SALESMAN GROUP BY repid ORDER BY SUM(amount) DESC FETCH FIRST 1 ROW ONLY;***

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

***SELECT MAX(sal) AS second\_highest\_salary FROM EMP WHERE sal < (SELECT MAX(sal) FROM EMP);***

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

***SELECT \* FROM EMP e1 WHERE sal = (SELECT MAX(sal) FROM EMP e2 WHERE e1.deptno = e2.deptno);****Write a query to find the salesman number (repid) who has achieved the maximum total sales among the entire salesman.*

***SELECT repid FROM SALESMAN GROUP BY repid ORDER BY SUM(amount) DESC FETCH FIRST 1 ROW ONLY;***

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

***SELECT job, MAX(sal) AS highest\_salary FROM EMP GROUP BY job;***

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

***SELECT deptno, MAX(hiredate) AS most\_recent\_hire FROM EMP GROUP BY deptno;***

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

***SELECT EXTRACT(YEAR FROM hiredate) AS year, COUNT(\*) AS employee\_count FROM EMP GROUP BY EXTRACT(YEAR FROM hiredate) ORDER BY employee\_count DESC FETCH FIRST 1 ROW ONLY;***

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

***SELECT name FROM EMP GROUP BY name HAVING COUNT(\*) = 1;***

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

***SELECT d.\*, COUNT(e.empno) AS employee\_count FROM DEPT d LEFT JOIN EMP e ON d.deptno = e.deptno GROUP BY d.deptno;***

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

***SELECT deptno FROM DEPT WHERE deptno NOT IN (SELECT DISTINCT deptno FROM EMP);***

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

***SELECT EXTRACT(MONTH FROM hiredate) AS month, COUNT(\*) AS employee\_count FROM EMP GROUP BY EXTRACT(MONTH FROM hiredate) ORDER BY month;***