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

*select count(\*) from emp;*

*+----------+*

*| count(\*) |*

*+----------+*

*| 20 |*

*+----------+*

*1 row in set (0.00 sec)*

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

*mysql> select max(sal) from emp;*

*+----------+*

*| max(sal) |*

*+----------+*

*| 5000.00 |*

*+----------+*

*1 row in set (0.00 sec)*

*mysql> select min(sal) from emp;*

*+----------+*

*| min(sal) |*

*+----------+*

*| 800.00 |*

*+----------+*

*1 row in set (0.00 sec)*

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

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

*+----------+*

*| count(\*) |*

*+----------+*

*| 3 |*

*+----------+*

*1 row in set (0.00 sec)*

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

*select count(deptno) from emp;*

*+---------------+*

*| count(deptno) |*

*+---------------+*

*| 20 |*

*+---------------+*

*1 row in set (0.00 sec)*

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

* 1. *Print jobwise total salary.*

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

*+----------+-----------+*

*| sum(sal) | job |*

*+----------+-----------+*

*| 9250.00 | CLERK |*

*| 9525.00 | SALESMAN |*

*| 13675.00 | MANAGER |*

*| 6000.00 | ANALYST |*

*| 5000.00 | PRESIDENT |*

*+----------+-----------+*

*5 rows in set (0.00 sec)*

* 1. *Print department wise maximum salary.*

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

*+----------+--------+*

*| max(sal) | deptno |*

*+----------+--------+*

*| 5000.00 | 10 |*

*| 3000.00 | 20 |*

*| 4150.00 | 30 |*

*+----------+--------+*

*3 rows in set (0.00 sec)*

* 1. *Print jobwise average salary.*

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

*+----------+--------+*

*| max(sal) | deptno |*

*+----------+--------+*

*| 5000.00 | 10 |*

*| 3000.00 | 20 |*

*| 4150.00 | 30 |*

*+----------+--------+*

*3 rows in set (0.00 sec)*

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

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

*+---------------+*

*| count(deptno) |*

*+---------------+*

*| 5 |*

*+---------------+*

*1 row in set (0.00 sec)*

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

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

*+----------+*

*| count(\*) |*

*+----------+*

*| 1 |*

*+----------+*

*1 row in set (0.00 sec)*

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

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

*+---------------+--------+------+*

*| count(deptno) | deptno | comm |*

*+---------------+--------+------+*

*| 0 | NULL | NULL |*

*+---------------+--------+------+*

*1 row in set (0.00 sec)*

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

*select ename , max(sal) from emp where job="accounts" ;*

*+-------+----------+*

*| ename | max(sal) |*

*+-------+----------+*

*| NULL | NULL |*

*+-------+----------+*

*1 row in set (0.00 sec)*

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

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

*select sal,job,deptno,avg(sal\*12 ) as annualsalary from emp group by job;*

*+---------+-----------+--------+--------------+*

*| sal | job | deptno | annualsalary |*

*+---------+-----------+--------+--------------+*

*| 800.00 | CLERK | 20 | 18500.000000 |*

*| 1600.00 | SALESMAN | 30 | 19050.000000 |*

*| 2975.00 | MANAGER | 20 | 32820.000000 |*

*| 3000.00 | ANALYST | 20 | 36000.000000 |*

*| 5000.00 | PRESIDENT | 10 | 60000.000000 |*

*+---------+-----------+--------+--------------+*

*5 rows in set (0.00 sec)*

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

*mysql> select deptno,count(deptno),count(comm) from emp where deptno=20;*

*+--------+---------------+-------------+*

*| deptno | count(deptno) | count(comm) |*

*+--------+---------------+-------------+*

*| 20 | 5 | 0 |*

*+--------+---------------+-------------+*

*1 row in set (0.00 sec)*

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

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

*+---------+-------------+----------+----------+*

*| job | avg(sal) | min(sal) | max(sal) |*

*+---------+-------------+----------+----------+*

*| CLERK | 1541.666667 | 800.00 | 3350.00 |*

*| MANAGER | 2735.000000 | 1250.00 | 4150.00 |*

*+---------+-------------+----------+----------+*

*2 rows in set (0.01 sec)*

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

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

*select ename,monthname(hiredate)from emp where monthname(hiredate)="december";*

*+-------+---------------------+*

*| ename | monthname(hiredate) |*

*+-------+---------------------+*

*| SMITH | December |*

*| AARAV | December |*

*| SCOTT | December |*

*| JAMES | December |*

*| FORD | December |*

*+-------+---------------------+*

*5 rows in set (0.00 sec)*

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

*select ename,monthname(hiredate)from emp where year(hiredate)="1980";*

*+--------+---------------------+*

*| ename | monthname(hiredate) |*

*+--------+---------------------+*

*| SMITH | December |*

*| GRASS | February |*

*| AARUSH | February |*

*+--------+---------------------+*

*3 rows in set (0.00 sec)*

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

*select ename ,job, concat(concat(upper(substr(ename,1,1)),lower(substr(ename,2))),"-", concat(upper(substr(job,1,1)),lower(substr(job,2)))) from emp;*

*+---------+-----------+--------------------------------------------------------------------------------------------------------------------------+*

*| ename | job | concat(concat(upper(substr(ename,1,1)),lower(substr(ename,2))),"-", concat(upper(substr(job,1,1)),lower(substr(job,2)))) |*

*+---------+-----------+--------------------------------------------------------------------------------------------------------------------------+*

*| SMITH | CLERK | Smith-Clerk |*

*| AARAV | CLERK | Aarav-Clerk |*

*| THOMAS | CLERK | Thomas-Clerk |*

*| ALLEN | SALESMAN | Allen-Salesman |*

*| WARD | SALESMAN | Ward-Salesman |*

*| JONES | MANAGER | Jones-Manager |*

*| MARTIN | SALESMAN | Martin-Salesman |*

*| BLAKE | MANAGER | Blake-Manager |*

*| CLARK | MANAGER | Clark-Manager |*

*| SCOTT | ANALYST | Scott-Analyst |*

*| KING | PRESIDENT | King-President |*

*| TURNER | SALESMAN | Turner-Salesman |*

*| ADAMS | CLERK | Adams-Clerk |*

*| JAMES | CLERK | James-Clerk |*

*| FORD | ANALYST | Ford-Analyst |*

*| HOFFMAN | MANAGER | Hoffman-Manager |*

*| GRASS | SALESMAN | Grass-Salesman |*

*| MILLER | CLERK | Miller-Clerk |*

*| AARUSH | SALESMAN | Aarush-Salesman |*

*| ALEX | MANAGER | Alex-Manager |*

*+---------+-----------+--------------------------------------------------------------------------------------------------------------------------+*

*20 rows in set (0.00 sec)*

* 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, ename,date\_format(hiredate,"%d/%m/%y") from emp where deptno =20;*

*+-------+-------+----------------------------------+*

*| empno | ename | date\_format(hiredate,"%d/%m/%y") |*

*+-------+-------+----------------------------------+*

*| 7369 | SMITH | 17/12/80 |*

*| 7566 | JONES | 02/04/81 |*

*| 7788 | SCOTT | 09/12/82 |*

*| 7876 | ADAMS | 12/01/83 |*

*| 7902 | FORD | 03/12/81 |*

*+-------+-------+----------------------------------+*

*5 rows in set (0.00 sec)*

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

*select ename ,job, timestampdiff(month,date(hiredate),date(now())) as m from emp where job="president";*

*+-------+-----------+------+*

*| ename | job | m |*

*+-------+-----------+------+*

*| KING | PRESIDENT | 454 |*

*+-------+-----------+------+*

*1 row in set (0.00 sec)*

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

*select ename,dayofweek(hiredate) from emp where ename="smith";*

*+-------+---------------------+*

*| ename | dayofweek(hiredate) |*

*+-------+---------------------+*

*| SMITH | 4 |*

*+-------+---------------------+*

*1 row in set (0.00 sec)*

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

*select ename,time(hiredate) from emp where ename="adams";*

*+-------+----------------+*

*| ename | time(hiredate) |*

*+-------+----------------+*

*| ADAMS | 00:00:00 |*

*+-------+----------------+*

*1 row in set (0.00 sec)*

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

*select ename,dayofmonth(hiredate) from emp where ename="king";*

*+-------+----------------------+*

*| ename | dayofmonth(hiredate) |*

*+-------+----------------------+*

*| KING | 17 |*

*+-------+----------------------+*

*1 row in set (0.00 sec)*

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

*select ename,month(hiredate) from emp where ename="martin";*

*+--------+-----------------+*

*| ename | month(hiredate) |*

*+--------+-----------------+*

*| MARTIN | 9 |*

*+--------+-----------------+*

*1 row in set (0.00 sec)*

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

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

*+---------+-------+-------------------+*

*| ename | empno | quarter(hiredate) |*

*+---------+-------+-------------------+*

*| SMITH | 7369 | 4 |*

*| AARAV | 7415 | 4 |*

*| THOMAS | 7421 | 3 |*

*| ALLEN | 7499 | 1 |*

*| WARD | 7521 | 1 |*

*| JONES | 7566 | 2 |*

*| MARTIN | 7654 | 3 |*

*| BLAKE | 7698 | 2 |*

*| CLARK | 7782 | 2 |*

*| SCOTT | 7788 | 4 |*

*| KING | 7839 | 4 |*

*| TURNER | 7844 | 3 |*

*| ADAMS | 7876 | 1 |*

*| JAMES | 7900 | 4 |*

*| FORD | 7902 | 4 |*

*| HOFFMAN | 7919 | 1 |*

*| GRASS | 7920 | 1 |*

*| MILLER | 7934 | 1 |*

*| AARUSH | 7945 | 1 |*

*| ALEX | 7949 | 1 |*

*+---------+-------+-------------------+*

*20 rows in set (0.00 sec)*

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

*mysql> select ename,empno,date\_format(hiredate," the %D of %M %Y") from emp where job="analyst";*

*+-------+-------+-------------------------------------------+*

*| ename | empno | date\_format(hiredate," the %D of %M %Y") |*

*+-------+-------+-------------------------------------------+*

*| SCOTT | 7788 | the 9th of December 1982 |*

*| FORD | 7902 | the 3rd of December 1981 |*

*+-------+-------+-------------------------------------------+*

*2 rows in set (0.00 sec)*

* 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 ename,empno , job, case job when 'clerk' then 'a' when 'manager' then 'b' else "c" end from emp;*

*+---------+-------+-----------+---------------------------------------------------------------------+*

*| ename | empno | job | case job when 'clerk' then 'a' when 'manager' then 'b' else "c" end |*

*+---------+-------+-----------+---------------------------------------------------------------------+*

*| SMITH | 7369 | CLERK | a |*

*| AARAV | 7415 | CLERK | a |*

*| THOMAS | 7421 | CLERK | a |*

*| ALLEN | 7499 | SALESMAN | c |*

*| WARD | 7521 | SALESMAN | c |*

*| JONES | 7566 | MANAGER | b |*

*| MARTIN | 7654 | SALESMAN | c |*

*| BLAKE | 7698 | MANAGER | b |*

*| CLARK | 7782 | MANAGER | b |*

*| SCOTT | 7788 | ANALYST | c |*

*| KING | 7839 | PRESIDENT | c |*

*| TURNER | 7844 | SALESMAN | c |*

*| ADAMS | 7876 | CLERK | a |*

*| JAMES | 7900 | CLERK | a |*

*| FORD | 7902 | ANALYST | c |*

*| HOFFMAN | 7919 | MANAGER | b |*

*| GRASS | 7920 | SALESMAN | c |*

*| MILLER | 7934 | CLERK | a |*

*| AARUSH | 7945 | SALESMAN | c |*

*| ALEX | 7949 | MANAGER | b |*

*+---------+-------+-----------+---------------------------------------------------------------------+*

*20 rows in set (0.00 sec)*

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

*select ename,(char\_length(ename)) from emp group by ename order by 2 desc limit 1;*

*+---------+----------------------+*

*| ename | (char\_length(ename)) |*

*+---------+----------------------+*

*| HOFFMAN | 7 |*

*+---------+----------------------+*

*1 row in set (0.00 sec)*

* 1. *Write a query to list the length of service of the employees (of the form n years and m months).*
  2. *select ename ,concat(timestampdiff(year,date(hiredate),date(now()))," years and ",12-month(hiredate)," months ") from emp;*

*+---------+----------------------------------------------------------------------------------------------------+*

*| ename | concat(timestampdiff(year,date(hiredate),date(now()))," years and ",12-month(hiredate)," months ") |*

*+---------+----------------------------------------------------------------------------------------------------+*

*| SMITH | 38 years and 0 months |*

*| AARAV | 37 years and 0 months |*

*| THOMAS | 38 years and 5 months |*

*| ALLEN | 38 years and 10 months |*

*| WARD | 38 years and 10 months |*

*| JONES | 38 years and 8 months |*

*| MARTIN | 38 years and 3 months |*

*| BLAKE | 38 years and 7 months |*

*| CLARK | 38 years and 6 months |*

*| SCOTT | 36 years and 0 months |*

*| KING | 37 years and 1 months |*

*| TURNER | 38 years and 3 months |*

*| ADAMS | 36 years and 11 months |*

*| JAMES | 37 years and 0 months |*

*| FORD | 37 years and 0 months |*

*| HOFFMAN | 37 years and 9 months |*

*| GRASS | 39 years and 10 months |*

*| MILLER | 37 years and 11 months |*

*| AARUSH | 39 years and 10 months |*

*| ALEX | 37 years and 11 months |*

*+---------+---------------------------------------------------------------------------------------------------+*

*20 rows in set (0.00 sec)*

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

*select count(\*) from emp where year(hiredate)="1981";*

*+----------+*

*| count(\*) |*

*+----------+*

*| 12 |*

*+----------+*

*1 row in set (0.00 sec)*

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

*select count(\*),monthname(hiredate) as d1,year(hiredate) as y from emp group by d1 having y="1981";*

*+----------+-----------+------+*

*| count(\*) | d1 | y |*

*+----------+-----------+------+*

*| 1 | July | 1981 |*

*| 4 | February | 1981 |*

*| 1 | April | 1981 |*

*| 2 | September | 1981 |*

*| 1 | May | 1981 |*

*| 1 | June | 1981 |*

*| 1 | November | 1981 |*

*+----------+-----------+------+*

*7 rows in set (0.00 sec)*

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

*select count(\*),monthname(hiredate) as d1,year(hiredate) as y from emp group by d1 having y="1981" and d1="may" ;*

*+----------+------+------+*

*| count(\*) | d1 | y |*

*+----------+------+------+*

*| 1 | May | 1981 |*

*+----------+------+------+*

*1 row in set (0.00 sec)*

* 1. *Find the total sales amount*

*select sum(amount) from sales;*

*+-------------+*

*| sum(amount) |*

*+-------------+*

*| 103587.00 |*

*+-------------+*

*1 row in set (0.00 sec)*

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

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

*+----------------------------------------------+-------------+-------------+*

*| custname | max(amount) | min(amount) |*

*+----------------------------------------------+-------------+-------------+*

*| JOCKSPORTS | 2400.00 | 50.00 |*

*| TKB SPORT SHOP | 58.00 | 8.40 |*

*| VOLLYRITE | 16569.00 | 2300.50 |*

*| JUST TENNIS | 450.00 | 24.00 |*

*| EVERY MOUNTAIN | 3000.00 | 24.00 |*

*| K + T SPORTS | 29000.00 | 340.00 |*

*| SHAPE UP | 4584.00 | 2.40 |*

*| WOMENS SPORTS | 280.00 | 180.00 |*

*| NORTH WOODS HEALTH AND FITNESS SUPPLY CENTER | 4800.00 | 440.00 |*

*+----------------------------------------------+-------------+-------------+*

*9 rows in set (0.00 sec)*

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

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

*+----------------+-------------------------+-------------+-------------+*

*| custname | prodname | max(amount) | min(amount) |*

*+----------------+-------------------------+-------------+-------------+*

*| JOCKSPORTS | RH: "GUIDE TO TENNIS" | 1703.40 | 34.00 |*

*| JOCKSPORTS | ACE TENNIS RACKET II | 4584.00 | 180.00 |*

*| JOCKSPORTS | ACE TENNIS BALLS-3 PACK | 3306.00 | 8.40 |*

*| JOCKSPORTS | ACE TENNIS NET | 29000.00 | 50.00 |*

*| JOCKSPORTS | ACE TENNIS RACKET I | 16569.00 | 35.00 |*

*| JOCKSPORTS | SB ENERGY BAR-6 PACK | 2400.00 | 2.40 |*

*| VOLLYRITE | ACE TENNIS BALLS-6 PACK | 5600.00 | 250.00 |*

*| EVERY MOUNTAIN | SP TENNIS RACKET | 4800.00 | 24.00 |*

*| EVERY MOUNTAIN | SP JUNIOR RACKET | 2500.00 | 900.00 |*

*| EVERY MOUNTAIN | SB VITA SNACK-6 PACK | 1200.00 | 400.00 |*

*+----------------+-------------------------+-------------+-------------+*

*10 rows in set (0.00 sec)*

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

* 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 custname,prodname,sum(amount) from sales group by custname having prodname not like "tkb%" and count(prodname)>5;*

*+----------------+-------------------------+-------------+*

*| custname | prodname | sum(amount) |*

*+----------------+-------------------------+-------------+*

*| JOCKSPORTS | RH: "GUIDE TO TENNIS" | 5280.90 |*

*| EVERY MOUNTAIN | ACE TENNIS BALLS-6 PACK | 7160.80 |*

*| K + T SPORTS | ACE TENNIS RACKET I | 46370.00 |*

*| SHAPE UP | SB ENERGY BAR-6 PACK | 9024.40 |*

*+----------------+-------------------------+-------------+*

*4 rows in set (0.00 sec)*

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

*select max(sal) as max,min(sal) as min ,avg(sal) as avg ,sum(sal) as sum from emp group by sal;*

*+---------+---------+-------------+---------+*

*| max | min | avg | sum |*

*+---------+---------+-------------+---------+*

*| 800.00 | 800.00 | 800.000000 | 800.00 |*

*| 3350.00 | 3350.00 | 3350.000000 | 3350.00 |*

*| 1750.00 | 1750.00 | 1750.000000 | 1750.00 |*

*| 1600.00 | 1600.00 | 1600.000000 | 1600.00 |*

*| 1250.00 | 1250.00 | 1250.000000 | 3750.00 |*

*| 2975.00 | 2975.00 | 2975.000000 | 2975.00 |*

*| 2850.00 | 2850.00 | 2850.000000 | 2850.00 |*

*| 2450.00 | 2450.00 | 2450.000000 | 2450.00 |*

*| 3000.00 | 3000.00 | 3000.000000 | 6000.00 |*

*| 5000.00 | 5000.00 | 5000.000000 | 5000.00 |*

*| 1500.00 | 1500.00 | 1500.000000 | 1500.00 |*

*| 1100.00 | 1100.00 | 1100.000000 | 1100.00 |*

*| 950.00 | 950.00 | 950.000000 | 950.00 |*

*| 4150.00 | 4150.00 | 4150.000000 | 4150.00 |*

*| 2575.00 | 2575.00 | 2575.000000 | 2575.00 |*

*| 1300.00 | 1300.00 | 1300.000000 | 1300.00 |*

*| 1350.00 | 1350.00 | 1350.000000 | 1350.00 |*

*+---------+---------+-------------+---------+*

*17 rows in set (0.00 sec)*

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

*select ename,job,max(sal) as max,min(sal) as min ,avg(sal) as avg ,sum(sal) as sum from emp group by job;*

*+-------+-----------+---------+---------+-------------+----------+*

*| ename | job | max | min | avg | sum |*

*+-------+-----------+---------+---------+-------------+----------+*

*| SMITH | CLERK | 3350.00 | 800.00 | 1541.666667 | 9250.00 |*

*| ALLEN | SALESMAN | 2575.00 | 1250.00 | 1587.500000 | 9525.00 |*

*| JONES | MANAGER | 4150.00 | 1250.00 | 2735.000000 | 13675.00 |*

*| SCOTT | ANALYST | 3000.00 | 3000.00 | 3000.000000 | 6000.00 |*

*| KING | PRESIDENT | 5000.00 | 5000.00 | 5000.000000 | 5000.00 |*

*+-------+-----------+---------+---------+-------------+----------+*

*5 rows in set (0.00 sec)*

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

*select sal,deptno,ename from emp where sal > (select avg(sal) from emp where deptno=20);*

*+---------+--------+---------+*

*| sal | deptno | ename |*

*+---------+--------+---------+*

*| 3350.00 | 10 | AARAV |*

*| 2975.00 | 20 | JONES |*

*| 2850.00 | 30 | BLAKE |*

*| 2450.00 | 10 | CLARK |*

*| 3000.00 | 20 | SCOTT |*

*| 5000.00 | 10 | KING |*

*| 3000.00 | 20 | FORD |*

*| 4150.00 | 30 | HOFFMAN |*

*| 2575.00 | 30 | GRASS |*

*+---------+--------+---------+*

*9 rows in set (0.00 sec)*

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

*select sal,deptno,ename,job,avg(sal\*12) from emp group by deptno,job;*

*+---------+--------+-------+-----------+--------------+*

*| sal | deptno | ename | job | avg(sal\*12) |*

*+---------+--------+-------+-----------+--------------+*

*| 800.00 | 20 | SMITH | CLERK | 11400.000000 |*

*| 3350.00 | 10 | AARAV | CLERK | 25600.000000 |*

*| 1600.00 | 30 | ALLEN | SALESMAN | 19050.000000 |*

*| 2975.00 | 20 | JONES | MANAGER | 35700.000000 |*

*| 2850.00 | 30 | BLAKE | MANAGER | 33000.000000 |*

*| 2450.00 | 10 | CLARK | MANAGER | 29400.000000 |*

*| 3000.00 | 20 | SCOTT | ANALYST | 36000.000000 |*

*| 5000.00 | 10 | KING | PRESIDENT | 60000.000000 |*

*| 950.00 | 30 | JAMES | CLERK | 11400.000000 |*

*+---------+--------+-------+-----------+--------------+*

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

*select count(ename), count(comm),count(sal) from emp group by deptno having deptno=30 ;*

*+--------------+-------------+------------+*

*| count(ename) | count(comm) | count(sal) |*

*+--------------+-------------+------------+*

*| 10 | 7 | 10 |*

*+--------------+-------------+------------+*

*1 row in set (0.00 sec)*

* 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 job, avg(sal),min(sal),max(sal) from emp group by job having job="clerk" or job="manager";*

*+---------+-------------+----------+----------+*

*| job | avg(sal) | min(sal) | max(sal) |*

*+---------+-------------+----------+----------+*

*| CLERK | 1541.666667 | 800.00 | 3350.00 |*

*| MANAGER | 2735.000000 | 1250.00 | 4150.00 |*

*+---------+-------------+----------+----------+*

*2 rows in set (0.00 sec)*

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

*select ename,max(sal) as "2nd highest salary" from emp group by ename order by 2 desc limit 2,1;*

*+-------+--------------------+*

*| ename | 2nd highest salary |*

*+-------+--------------------+*

*| AARAV | 3350.00 |*

*+-------+--------------------+*

*1 row in set (0.00 sec)*

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

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

*+-------+----------+--------+*

*| ename | max(sal) | deptno |*

*+-------+----------+--------+*

*| AARAV | 5000.00 | 10 |*

*| SMITH | 3000.00 | 20 |*

*| ALLEN | 4150.00 | 30 |*

*+-------+----------+--------+*

*3 rows in set (0.00 sec)*

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

*select repid,max(amount) from sales;*

*+-------+-------------+*

*| repid | max(amount) |*

*+-------+-------------+*

*| 7844 | 29000.00 |*

*+-------+-------------+*

*1 row in set (0.00 sec)*

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

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

*+----------+-----------+*

*| max(sal) | job |*

*+----------+-----------+*

*| 3350.00 | CLERK |*

*| 2575.00 | SALESMAN |*

*| 4150.00 | MANAGER |*

*| 3000.00 | ANALYST |*

*| 5000.00 | PRESIDENT |*

*+----------+-----------+*

*5 rows in set (0.00 sec)*

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

*select ename,hiredate from emp group by hiredate order by hiredate desc;*

*+---------+---------------------+*

*| ename | hiredate |*

*+---------+---------------------+*

*| ADAMS | 1983-01-12 00:00:00 |*

*| SCOTT | 1982-12-09 00:00:00 |*

*| HOFFMAN | 1982-03-24 00:00:00 |*

*| ALEX | 1982-01-24 00:00:00 |*

*| MILLER | 1982-01-23 00:00:00 |*

*| AARAV | 1981-12-31 00:00:00 |*

*| JAMES | 1981-12-03 00:00:00 |*

*| KING | 1981-11-17 00:00:00 |*

*| MARTIN | 1981-09-28 00:00:00 |*

*| TURNER | 1981-09-08 00:00:00 |*

*| THOMAS | 1981-07-19 00:00:00 |*

*| CLARK | 1981-06-09 00:00:00 |*

*| BLAKE | 1981-05-01 00:00:00 |*

*| JONES | 1981-04-02 00:00:00 |*

*| WARD | 1981-02-22 00:00:00 |*

*| ALLEN | 1981-02-20 00:00:00 |*

*| SMITH | 1980-12-17 00:00:00 |*

*| GRASS | 1980-02-14 00:00:00 |*

*+---------+---------------------+*

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

*select ename,empno,year(hiredate),count(year(hiredate)) from emp group by year(hiredate);*

*+-------+-------+----------------+-----------------------+*

*| ename | empno | year(hiredate) | count(year(hiredate)) |*

*+-------+-------+----------------+-----------------------+*

*| SMITH | 7369 | 1980 | 3 |*

*| AARAV | 7415 | 1981 | 12 |*

*| SCOTT | 7788 | 1982 | 4 |*

*| ADAMS | 7876 | 1983 | 1 |*

*+-------+-------+----------------+-----------------------+*

*4 rows in set (0.00 sec)*

* 1. *Write a query to display employee name whose name occurs only once in the table.*
  2. *Write a query to display all the details from dept table along with the no. of employee working in each dept.*

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

*+--------+----------+*

*| deptno | count(\*) |*

*+--------+----------+*

*| 10 | 5 |*

*| 20 | 5 |*

*| 30 | 10 |*

*+--------+----------+*

*3 rows in set (0.00 sec)*

* 1. *Find out which department does not have any employees.*
  2. *List out the no. of employees joined in every month in ascending order.*

*select count(\*),date\_format(hiredate,"%M") from emp group by month(hiredate) order by date\_format(hiredate,"%M") desc;*

*+----------+----------------------------+*

*| count(\*) | date\_format(hiredate,"%M") |*

*+----------+----------------------------+*

*| 2 | September |*

*| 1 | November |*

*| 1 | May |*

*| 1 | March |*

*| 1 | June |*

*| 1 | July |*

*| 3 | January |*

*| 4 | February |*

*| 5 | December |*

*| 1 | April |*

*+----------+----------------------------+*

*10 rows in set (0.00 sec)*