**ASSIGNMENT-2**

a) Calculate the average salary of all employees.

select round(avg(sal),2)"Average salary" from emp group by deptno

|  |
| --- |
| **Average salary** |
| 1614.17 |
| 2234.5 |
| 2998.33 |

b)Calculate the average salary of all managers.

select round(avg(sal),2)"Average salary" from emp where job='MANAGER'

|  |
| --- |
| **Average salary** |
| 3034.17 |

C)Calcutate the total salary of all employees

SELECT SUM(SAL)"TOTAL SALARY" FROM EMP

|  |
| --- |
| **TOTAL SALARY** |
| 29852.5 |

d) Calcutate the total salary of all managers.

SELECT SUM(SAL)"TOTAL SALARY" FROM EMP WHERE JOB='MANAGER'

|  |
| --- |
| **TOTAL SALARY** |
| 9102.5 |

e)Find the minimum salaries earned by the employees

SELECT MIN(SAL)"MINIMUM SALARY" FROM EMP

|  |
| --- |
| **MINIMUM SALARY** |
| 800 |

f)Find the maximum salaries earned by the employees

SELECT Max(SAL)"MAXIMUM SALARY" FROM EMP

|  |
| --- |
| **MAXIMUM SALARY** |
| 5000 |

g)Find the minimum salaries earned by the clerks

SELECT MIN(SAL)"MINIMUM SAL(CLERK)" FROM EMP WHERE JOB='CLERK'

|  |
| --- |
| **MINIMUM SAL(CLERK)** |
| 800 |

h)Find the maximum salaries earned by a salesman.

SELECT MAX(SAL)"MAXIMUM SAL(salesman)" FROM EMP WHERE JOB='SALESMAN'

|  |
| --- |
| **MAXIMUM SAL(salesman)** |
| 1600 |

i)Find the minimum and maximum and average salaries earned by a employees.

SELECT MAX(SAL)"MAXIMUM SAL",MIN(SAL)"MINIMUM SAL",ROUND(AVG(SAL),2)"AVERAGE SAL" FROM EMP

|  |  |  |
| --- | --- | --- |
| **MAXIMUM SAL** | **MINIMUM SAL** | **AVERAGE SAL** |
| 5000 | 800 | 2132.32 |

j)Find the minimum and maximum and average salaries earned by a clerks.

SELECT MAX(SAL)"MAXIMUM SAL",MIN(SAL)"MINIMUM SAL",ROUND(AVG(SAL),2)"AVERAGE SAL" FROM EMP WHERE JOB='CLERK'

|  |  |  |
| --- | --- | --- |
| **MAXIMUM SAL** | **MINIMUM SAL** | **AVERAGE SAL** |
| 1300 | 800 | 1037.5 |

k)List the total number of employees and the average salaries of the different departments.

SELECT COUNT(ENAME)"TOTAL EMP",ROUND(AVG(SAL),3)"AVERAGE SALARY" FROM EMP GROUP BY DEPTNO

|  |  |
| --- | --- |
| **TOTAL EMP** | **AVERAGE SALARY** |
| 6 | 1614.167 |
| 5 | 2234.5 |
| 3 | 2998.333 |

l) Calculate total number of employees.

SELECT COUNT(EMPNO)"TOTAL EMP" FROM EMP

|  |
| --- |
| **TOTAL EMP** |
| 14 |

m)Calculate total number of managers.

SELECT COUNT(ENAME)"TOTAL MANAGER" FROM EMP WHERE JOB='MANAGER'

|  |
| --- |
| **TOTAL MANAGER** |
| 3 |

n)Calculate the number of employees who are not getting any commission.

SELECT COUNT(ENAME)"EMP NOT GETTING ANY COMMISSION" FROM EMP WHERE COMM IS NULL

|  |
| --- |
| **EMP NOT GETTING ANY COMMISSION** |
| 10 |

o)Calculate the number of employees who are getting any commission.

SELECT COUNT(ENAME)"EMP GETTING ANY COMMISSION" FROM EMP WHERE COMM IS NOT NULL

|  |
| --- |
| **EMP GETTING ANY COMMISSION** |
| 4 |

p)List the details of all managers in ascending order of joining dates.

SELECT ENAME FROM EMP WHERE JOB='MANAGER' ORDER BY HIREDATE

ENAME JONES BLAKE CLARK

q)List the average salaries for each different job.

SELECT COUNT(DEPTNO),ROUND(AVG(SAL),2) FROM EMP GROUP BY DEPTNO

|  |  |
| --- | --- |
| **COUNT(DEPTNO)** | **ROUND(AVG(SAL),2)** |
| 6 | 1614.17 |
| 5 | 2234.5 |
| 3 | 2998.33 |

r)Display the minimum, maximum and average salaries for each job group.

SELECT MAX(SAL),MIN(SAL),ROUND(AVG(SAL),2) FROM EMP GROUP BY JOB

|  |  |  |
| --- | --- | --- |
| **MAX(SAL)** | **MIN(SAL)** | **ROUND(AVG(SAL),2)** |
| 1300 | 800 | 1037.5 |
| 1600 | 1250 | 1400 |
| 5000 | 5000 | 5000 |
| 3272.5 | 2695 | 3034.17 |
| 3000 | 3000 | 3000 |

s)Find all departments which have less 3 employees

SELECT DEPTNO FROM EMP HAVING COUNT(DEPTNO)<3 GROUP BY DEPTNO

no data found

t) List the details of the employees in ascending order of department number and within each department in descending order of salary.

u)Display the name ,departno and annual salary of each employee in order salary and deptno.

SELECT ENAME,DEPTNO,12\*SAL"ANNUAL SALARY" FROM EMP ORDER BY SAL,DEPTNO

|  |  |  |
| --- | --- | --- |
| **ENAME** | **DEPTNO** | **ANNUAL SALARY** |
| SMITH | 20 | 9600 |
| JAMES | 30 | 11400 |
| ADAMS | 20 | 13200 |
| MARTIN | 30 | 15000 |
| WARD | 30 | 15000 |
| MILLER | 10 | 15600 |
| TURNER | 30 | 18000 |
| ALLEN | 30 | 19200 |
| CLARK | 10 | 32340 |
| FORD | 20 | 36000 |

v)Display the name of employee who earns maximum salary.

SELECT ENAME,SAL FROM EMP WHERE SAL=(SELECT MAX(SAL) FROM EMP)

ENAME SAL

KING 5000

w)Display the name of employee who earns minimum salary.

SELECT ENAME,SAL FROM EMP WHERE SAL=(SELECT MIN(SAL) FROM EMP)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **ENAME** | **SAL** | | SMITH | 800 | | 1 rows returned in 0.00 seconds | |  | [Download](http://127.0.0.1:8080/apex/f?p=4500:1204:3969584763248626::::P1204_BROWSER_LANG:en) |  |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |

x)Display the name of employee who earns maximum salary whose job is a salesman.

SELECT ENAME,SAL FROM EMP WHERE SAL=(SELECT MAX(SAL) FROM EMP WHERE JOB='SALESMAN')

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **ENAME** | **SAL** | | ALLEN | 1600 | | 1 rows returned in 0.02 seconds | |  | [Download](http://127.0.0.1:8080/apex/f?p=4500:1204:3969584763248626::::P1204_BROWSER_LANG:en) |  |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |

y)Display the name of employee who earns minimum salary whose job is a clerk.

SELECT ENAME,SAL FROM EMP WHERE SAL=(SELECT MIN(SAL) FROM EMP WHERE JOB='SALESMAN')

|  |  |  |
| --- | --- | --- |
| **ENAME** | | **SAL** |
| WARD | | 1250 |
| MARTIN | | 1250 |
| 2 rows returned in 0.01 seconds | |  | [Download](http://127.0.0.1:8080/apex/f?p=4500:1204:3969584763248626::::P1204_BROWSER_LANG:en) |

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |

z)Display the department number whose average salary is maximum.