Name Nikhil Gupta Roll No. 20051523 Batch CSE-OG Branch CSE Subject DBMS

Assignment -4

Quest Display all employee names (last name & fixet name seperated by a command a space) with proper case, I salary with currency format.

select concat (frame, concat (', ', Iname)) as full name, salary as Salary from employee.

```
SQL> column salary format $999,999

SQL> select concat(fname,concat(', ',lname)) as Fullname, salary as Salary from employee;

FULLNAME

John, Smith

Larry, Houstan

Nikhil, Gupta

Derek, Dave

Alex, McCall

SALARY

$320,650

$150,000

$75,000

$80,000

$66,500
```

Ques 2 Display all employee with their commission value. Display O commission for employees who do not get any commission.

select Frame, Lname, NVL (commission, O) from employee.

```
SQL> select Fname, Lname, NVL(COMMISSION,0) from employee;
FNAME
                                             NVL(COMMISSION,0)
                      LNAME
John
                      Smith
                                                           35000
Larry
                      Houstan
                                                           10000
Nikhil
                      Gupta
Derek
                      Dave
                                                           20000
Alex
                      McCall
                                                               0
```

Ques 3 Count total no. of nooms in Location.

select count (Room No) as Total Rooms from Location;

```
SQL> select count(RoomNo) as TotalRooms from location;

TOTALROOMS

-----5
```

gues 4 Count distinct building names in Location.

select distinct building from locations

```
SQL> select distinct building from location;

BUILDING

WingC

WingB

WingD

WingA
```

Ques 5 Display all student names of birtholate. Display birth date with pormed '20 october, 1970'.

select concat (frame, concat (', ', lume)) as full name, bisithdate as Bisithdate from Student;

```
SQL> select concat(fname,concat(', ',lname)) as Fullname, birthdate as BirthDate from student;

FULLNAME

Tom, Cruise

Mickey, Tyler

Rajesh, Patel

Deborah, Rickles

BIRTHDATE

30-APR-02

18-MAR-84

28-NOV-85

Deborah, Rickles

21-JUN-01

Brian, Lee

26-MAY-16
```

Ques 6 Find the average, highest, I lowest age for Student.

select round (aug((848 date - birthdate) / 365.25)) "avg", round (mox ((848 date - birthdate) / 365.25)) "mox", round (min ((848 date - birthdate) / 365.25)) "min" from Student;

3

10

5

- 3

- 3

-

-

- 3

-

3

Ques 7 Display the total number of dependents for each employee for employees who have attent two dependents.

select Employee ID, count (*) as "No of Dependents" from dependent group by Employee ID raving count (*) >= 2;

Gues & Display only year value from each employee's hiere date.

Select frame, Lame, exteract (YEAR from Hiredate)
as HIREDATE from Employee;

SQL> select	Fname, Lname, extract(YEA	AR from HIREDATE)	as HIREDATE	from employee;
FNAME	LNAME	HIREDATE		
John	Smith	1960		
Larry	Houstan	1967		
Nikhil	Gupta	1991		
Derek	Dave	1995		
Alex	McCall	1997		

Ques q Find average employée commission select aug(commission) as Employée Commission from employée;

Ques 10 Ignosie nulls

select fisme, Insure, commission from employee where commission is not null;

SQL> select fname, lname, commission from employee where commission is not null;

FNAME LNAME COMMISSION

John Smith 35000

Larry Houstan 10000

Derek Dave 20000

Ques 11 Do not ignosse nulls select frame, knowne, commission from employee where commission is monull;

```
SQL> select fname, lname, commission from employee where commission is null;

FNAME LNAME COMMISSION

------
Nikhil Gupta
Alex McCall
```

912 Find sum of maximum count by toom by course. select sum (maxcount) from consection;

Ques 13 Find 2 to the power 10.

select power(2, 10) from dual;

```
SQL> select power(2,10) from dual;

POWER(2,10)
------
1024
```

Ques 14 Display courses of prerequisites. If there is no prerequisite, display none due display one.

select title, case when powered is null then 'none' else 'one' END from courses

```
SQL> select title, case when prereq is null then 'none' else 'one' END from course;

TITLE CASE
-----
DSA none
DBMS one
OS one
WebTech one
COA none
```

Ques 15 Court number of faculty members by each department.

select count (deportment. faulty id), deportment. deption from department, faculty where faculty. faculty id = department. faculty id group by department. deptinance;

```
SQL> select count(department.facultyid), department.deptname from department,

2 faculty where faculty.facultyid = department.facultyid group by department.deptname;

COUNT(DEPARTMENT.FACULTYID) DEPTNAME

1 Telecommunication
1 Electronics
1 Computer Science
1 Accounting
```

Ques 16 Display average employée salary by department, but do not include departments with average salary less than \$75,000.

select deptid, aug(salary) from employee group by deptid having aug(salary) (75000;

Sues 17 Find number of years employees have been working for. Display integer part of value only.

Select Employee ID, Trunc ((External (Year from syndate)Extract (Year from Hiredote))) as "Total number of Years" from Employee;

```
SQL> select EMPLOYEEID , TRUNC(( EXTRACT(YEAR FROM SYSDATE) - EXTRACT(YEAR FROM HireDate) )) as "Total Number of Years" from EMPLOYEE;

EMPLOYEEID Total Number of Years

111 62
246 55
123 31
543 27
433 25
```

Ques 18 Find students who were boarn in May.

Select * from student where to_char (birthdate, 'M')
=5;

SQL> set lines 256 SQL> select * from student where to_char(birthdate, 'MM')=5							
STUDENTID LNAME FNAME	STREET	CITY	STATE	ZIP STARTTERM	BIRTHDATE FACULTYID	MAJORID	PHONE
00104 Lee Brian	FirstLane	hope	NY	11373 2018	26-MAY-16 345	500	7623451235

followed by Salary + commission if commission is not null, also display salary only

select Iname, frame, coalesce (salary + commission, salary) as Payout from amployee;

```
SQL> select LNAME, FNAME, coalesce (SALARY + COMMISSION , SALARY) as PAYOUT from EMPLOYEE;
LNAME
                      FNAME
                                                  PAYOUT
Smith
                                                  355650
                      John
Houstan
                      Larry
                                                  160000
Gupta
                      Nikhil
                                                   75000
Dave
                      Derek
                                                  100000
McCall
                      Alex
                                                   66500
```

Ques 20 Display amployee's full name followed by a mereage based on salary. If salary is above \$100,000, display "High". If salary is between \$50,000 of \$100,000, display "Low".

"medium. If salary is below \$50,000, display "Low".

"medium. If salary is below \$50,000, display "Low".

Select FName ||' '|| I have as Name, (case when salary >= 1000000 then 'High' alse (case when salary >= 50000 then 'Hedium' alse 'Low' and) and)

Salary >= 50000 then 'Medium' alse 'Low' and) and)

as Message from Employee;