**Registration No. – 19BCE1603**

**Name: - Wilson Vidyut Doloy**

**Ex. 3 DML**

**13-12-19**

Create table “Employee” and insert atleast 10-20 records. Set Empid as primary key.

Empid :

**Attribute Description/Data Type/Constraint**

EmpId Employee’s unique ID. Max. 4 characters should be numeric (Primary Key)

Name Employee’s first name. Max. 15 characters. (Not Null)

DepartmentMax. 15 characters (Not Null) (Only HR, Testing, Development and Accounts)

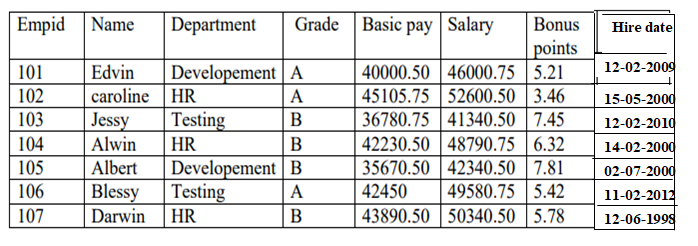
GradeMax. 3 characters (Only Grades A , B ,C allowed)

Basic PayDecimal point number length 10 with precision 2

Salary Pay Decimal point number length 10 with precision 2

Bonus Points Decimal point number length 5 with precision 2

HireDate Date on which employee was hired. Date data type.



1. List the employee details in “ Testing“ department.

2. Calculate the average salary of all employees in “HR” department

3. Count number of employees in “ Developement” department and with “B” grade.

4. Calculate the total salary of all employees

5. Find the Lowest salary in “HR” department.

6. List the employee details who got the minimum bonus points

7. List all the employee id and name with their bonus amount ( bonus amount will be calculated by multiplying bonus point with the basic salary)

8. Find the rounded value of the bonus points .( differentiate using CEIL ,FLOOR, TRUNC, ROUND)

9. Calculate the total salary of all employees ( total salary = salary + bonus amount)

10.How many employee earn salary more than 45000

10.How many employee earn salary in the range between 30k and 40k

11. Count number of employees in each department

12.List the emp ID and name for all department whose salary is more than average.

13.List the distinct department names

14. .Sort the relation with respect to the Salary in descending order.

15. Select the content of the "NAME" and "SALARY" columns from employee table, and

convert the "NAME" column to lowercase.

16. List the departments in which the average salary of the employees is greater than 40,000

17.Lists the number of employees in each department and group by their departments (Use Group by)

18. Lists the number of employees in each department and group by their departments and order by - sorted high to low.

19. List the number of employees in each department. Only include department with more than 3 employees. (use having clause)

20. Display the department name starts with ‘H’

21. Display the employee names ends with ‘y’

22.Display the employee details in Grade is not “B”

23.Display the employee details who joined in month of “April”

24. Display the employee details who joined after the year 2010

25. Display the employee details who joined after year 1990 but not later 2005.

26. Display the total experience of the employee till current date. (in years) from the date of hire.

create table employee(

empid number(4) primary key,

name varchar2(15) not null,

department varchar2(15) check(department in ('HR','Testing','Development','Accounts')),

grade varchar2(3) check(grade in ('A','B','C')),

basic\_pay number(10,2),

salary\_pay number(10,2),

bonus\_point number(5,2),

hire\_date date);

insert into employee values(101,'Edvin','Development','A',4000.50,46000.75,5.21,'12-Feb-2009');

insert into employee values(102,'Caroline','HR','A',45105.75,52600.50,3.46,

'15-may-2000');

insert into employee values(103,'Jessy','Testing','B',36780.75,41340.50,7.4

5,'12-feb-2010');

insert into employee values(104,'Alwin','HR','B',42230.50,48790.75,6.32,'14

-feb-2000');

insert into employee values(105,'Albert','Development','B',35670.50,42340.5

0,7.81,'02-jul-2000');

insert into employee values(106,'Blessy','Testing','A',42450.00,49580.75,5.

42,'11-feb-2012');

insert into employee values(107,'Darwin','HR','B',43890.50,50340.50,5.78,'1

2-june-1998');

select \* from employee;

EMPID NAME DEPARTMENT GRA BASIC\_PAY SALARY\_PAY BONUS\_POINT

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HIRE\_DATE

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101 Edvin Development A 40000.5 46000.75 5.21

12-FEB-09

102 Caroline HR A 45105.75 52600.5 3.46

15-MAY-00

103 Jessy Testing B 36780.75 41340.5 7.45

12-FEB-10

EMPID NAME DEPARTMENT GRA BASIC\_PAY SALARY\_PAY BONUS\_POINT

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HIRE\_DATE

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104 Alwin HR B 42230.5 48790.75 6.32

14-FEB-00

105 Albert Development B 35670.5 42340.5 7.81

02-JUL-00

106 Blessy Testing A 42450 49580.75 5.42

11-FEB-12

EMPID NAME DEPARTMENT GRA BASIC\_PAY SALARY\_PAY BONUS\_POINT

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HIRE\_DATE

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107 Darwin HR B 43890.5 50340.5 5.78

12-JUN-98

1)select \* from employee where department='Testing';

EMPID NAME DEPARTMENT GRA BASIC\_PAY SALARY\_PAY BONUS\_POINT

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HIRE\_DATE

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103 Jessy Testing B 36780.75 41340.5 7.45

12-FEB-10

106 Blessy Testing A 42450 49580.75 5.42

11-FEB-12

2) select avg(salary\_pay) from employee where department='HR';

AVG(SALARY\_PAY)

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50577.25

3) select count(\*) from employee where department='Development' and grade='B';

COUNT(\*)

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1

4) select sum(salary\_pay) from employee;

SUM(SALARY\_PAY)

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330994.25

5)select min(salary\_pay) from employee where department='HR';

MIN(SALARY\_PAY)

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48790.75

6) select min(bonus\_point) from employee;

MIN(BONUS\_POINT)

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3.46

7) select empid,name,bonus\_point\*basic\_pay from employee;

EMPID NAME BONUS\_POINT\*BASIC\_PAY

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101 Edvin 208402.605

102 Caroline 156065.895

103 Jessy 274016.588

104 Alwin 266896.76

105 Albert 278586.605

106 Blessy 230079

107 Darwin 253687.09

8)select ceil(bonus\_point),floor(bonus\_point),trunc(bonus\_point),round(bonus\_

point) from employee;

CEIL(BONUS\_POINT) FLOOR(BONUS\_POINT) TRUNC(BONUS\_POINT) ROUND(BONUS\_POINT)

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6 5 5 5

4 3 3 3

8 7 7 7

7 6 6 6

8 7 7 8

6 5 5 5

6 5 5 6

9) select empid,(bonus\_point\*basic\_pay+salary\_pay) from employee;

EMPID (BONUS\_POINT\*BASIC\_PAY+SALARY\_PAY)

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101 254403.355

102 208666.395

103 315357.088

104 315687.51

105 320927.105

106 279659.75

107 304027.59

10) select count(\*) from employee where salary>45000;

select count(\*) from employee where salary between 30000 and 40000;

11)select count(\*) from employee group by distinct department;

12)select empID, name from employee where salary>avg(salary);

13)select distinct department from employee;

14)select salary from employee order by desc;

15)select lower(name), salary from employee;

16)select department from employee where salary>40000;

17)select \* from employee group by distinct department;

18) select \* from employee group by distinct department order by desc;

19) select count(\*) from employee group by distinct department having count(\*)>3;

20)select department from employee where department like ‘H%’;

21)select name from employee where name like ’%Y’;

22)select \* from employee where grade=’A’ or grade=’C’;

23)select \* from employee where hire\_date=’%april%’;

24) select \* from employee where hire\_date>2010;

25) select \* from employee where hire\_date>1990 and date<=2005;

26)select hire\_date – 2019 from employee;