Q1. Which of the following should not be used while finding highest or least value/data.

a)Rownumber

b)Rank

c)Dense Rank

Q2. Write an SQL query to fetch the below details:

a)Total profit of shopping store

b)Total profit deptwise

c)Total Profit monthwise

d)Total Profit location wise

d)Dept where profit has increased month over month

e)Dept where profit has decreased month over month

f)Location which is giving the least profit

g)Location which is giving the maximum profit

h)Dept and location where profit has continously increased month over month

i)Dept and Location where profit has continously decreased month over month

create table shopping(deptname varchar(50),location varchar(50),month varchar(50),profit int);

insert into shopping values('clothing','delhi','jan',200);

insert into shopping values('clothing','delhi','feb',300);

insert into shopping values('clothing','delhi','mar',500);

insert into shopping values('clothing','mumbai','jan',300);

insert into shopping values('clothing','mumbai','feb',200);

insert into shopping values('clothing','mumbai','mar',150);

insert into shopping values('clothing','chennai','jan',400);

insert into shopping values('clothing','chennai','feb',400);

insert into shopping values('clothing','chennai','mar',400);

insert into shopping values('sports','delhi','jan',200);

insert into shopping values('sports','delhi','feb',150);

insert into shopping values('sports','delhi','mar',100);

insert into shopping values('sports','mumbai','jan',300);

insert into shopping values('sports','mumbai','feb',400);

insert into shopping values('sports','mumbai','mar',500);

insert into shopping values('sports','chennai','jan',400);

insert into shopping values('sports','chennai','feb',500);

insert into shopping values('sports','chennai','mar',300);

insert into shopping values('appliances','delhi','jan',200);

insert into shopping values('appliances','delhi','feb',350);

insert into shopping values('appliances','delhi','mar',100);

insert into shopping values('appliances','mumbai','jan',350);

insert into shopping values('appliances','mumbai','feb',400);

insert into shopping values('appliances','mumbai','mar',500);

insert into shopping values('appliances','chennai','jan',400);

insert into shopping values('appliances','chennai','feb',500);

insert into shopping values('appliances','chennai','mar',200);

Q3.Write an SQL query to find the country

a.with the highest txnamount

b.with the least txnamount

c.whose txnamount is greater than the average txnamount of all the countries

d.whose txnamount is less than the average txnamount of all the countries.

create table sales(country varchar(50),txnamount number);

insert into sales values('India',2000);

insert into sales values('UK',3000);

insert into sales values('USA',1000);

insert into sales values('India',2000);

insert into sales values('Germany',2000);

Q4.Write a query to display

the total count of records,

total count of records with subject as Maths,

total count of records with subject as Phy,

total count of records with subject as Chem,

total count of records with result as Pass,

total count of records with result as Fail

Create table student(id number,name varchar2(10),subject varchar2(10),result varchar2(10));

insert into student values(1,'A','Maths','Pass');

insert into student values(1,'A','Phy','Pass');

insert into student values(1,'A','Chem','Fail');

insert into student values(1,'A','Chem','Fail');

insert into student values(2,'B','Maths','Pass');

insert into student values(2,'B','Phy','Fail');

insert into student values(2,'B','Chem','Fail');

insert into student values(3,'C','Maths','Pass');

insert into student values(3,'C','Phy','Pass');

insert into student values(3,'C','Chem','Fail');

Q5.Write a SQL query to fetch the details of employee whose salary is least deptwise

create table dept (dept\_id number,deptname varchar2(10),empname varchar2(10),salary number);

insert into dept values(1,'HR','A',100);

insert into dept values(1,'HR','B',200);

insert into dept values(1,'HR','C',300);

insert into dept values(1,'HR','X',NULL);

insert into dept values(2,'SALES','D',400);

insert into dept values(2,'SALES','E',500);

insert into dept values(2,'SALES','F',600);

insert into dept values(2,'SALES','Y',NULL);

insert into dept values(3,'TECH','G',700);

insert into dept values(3,'TECH','H',800);

insert into dept values(3,'TECH','I',900);

insert into dept values(3,'TECH','Z',NULL);

Q6.Write a SQL query to fetch the details of employee whose salary is highest deptwise.

create table dept (dept\_id number,deptname varchar2(10),empname varchar2(10),salary number);

insert into dept values(1,'HR','A',100);

insert into dept values(1,'HR','B',200);

insert into dept values(1,'HR','C',300);

insert into dept values(2,'SALES','D',400);

insert into dept values(2,'SALES','E',500);

insert into dept values(2,'SALES','F',600);

insert into dept values(3,'TECH','G',700);

insert into dept values(3,'TECH','H',800);

insert into dept values(3,'TECH','I',900);

Q7. Write an SQL query to find the topper in each subject and semester.

CREATE TABLE STUD(ID NUMBER,NAME VARCHAR2(10),SEMESTER NUMBER,SUBJECT VARCHAR2(10),MARKS NUMBER);

INSERT INTO STUD VALUES(1,'A',1,'PHYSICS',100);

INSERT INTO STUD VALUES(1,'A',2,'PHYSICS',150);

INSERT INTO STUD VALUES(1,'A',3,'PHYSICS',200);

INSERT INTO STUD VALUES(1,'A',4,'PHYSICS',250);

INSERT INTO STUD VALUES(1,'A',1,'CHEMISTRY',50);

INSERT INTO STUD VALUES(1,'A',2,'CHEMISTRY',250);

INSERT INTO STUD VALUES(1,'A',3,'CHEMISTRY',200);

INSERT INTO STUD VALUES(1,'A',4,'CHEMISTRY',350);

INSERT INTO STUD VALUES(2,'B',1,'PHYSICS',150);

INSERT INTO STUD VALUES(2,'B',2,'PHYSICS',250);

INSERT INTO STUD VALUES(2,'B',3,'PHYSICS',100);

INSERT INTO STUD VALUES(2,'B',4,'PHYSICS',200);

INSERT INTO STUD VALUES(2,'B',1,'CHEMISTRY',150);

INSERT INTO STUD VALUES(2,'B',2,'CHEMISTRY',150);

INSERT INTO STUD VALUES(2,'B',3,'CHEMISTRY',250);

INSERT INTO STUD VALUES(2,'B',4,'CHEMISTRY',300);

Q8.Write an SQL query to find the employee who is earning second highest salary.

create table HR(empid number,empname varchar2(50),dept varchar2(50),salary number);

insert into HR values(1,'A','HR',100);

insert into HR values(2,'B','HR',100);

insert into HR values(3,'C','HR',90);

insert into HR values(4,'D','TECH',250);

insert into HR values(5,'E','TECH',200);

insert into HR values(6,'F','TECH',190);

Q9.Write an SQL query to find the employee who is earning second highest salary dept wise.

create table HR(empid number,empname varchar2(50),dept varchar2(50),salary number);

insert into HR values(1,'A','HR',100);

insert into HR values(2,'B','HR',100);

insert into HR values(3,'C','HR',90);

insert into HR values(4,'D','TECH',250);

insert into HR values(5,'E','TECH',200);

insert into HR values(6,'F','TECH',190);

Q10. Write an SQL query to find the topper in each semester.

CREATE TABLE STUD(ID NUMBER,NAME VARCHAR2(10),SEMESTER NUMBER,SUBJECT VARCHAR2(10),MARKS NUMBER);

INSERT INTO STUD VALUES(1,'A',1,'PHYSICS',100);

INSERT INTO STUD VALUES(1,'A',2,'PHYSICS',150);

INSERT INTO STUD VALUES(1,'A',3,'PHYSICS',200);

INSERT INTO STUD VALUES(1,'A',4,'PHYSICS',250);

INSERT INTO STUD VALUES(1,'A',1,'CHEMISTRY',50);

INSERT INTO STUD VALUES(1,'A',2,'CHEMISTRY',250);

INSERT INTO STUD VALUES(1,'A',3,'CHEMISTRY',200);

INSERT INTO STUD VALUES(1,'A',4,'CHEMISTRY',350);

INSERT INTO STUD VALUES(2,'B',1,'PHYSICS',150);

INSERT INTO STUD VALUES(2,'B',2,'PHYSICS',250);

INSERT INTO STUD VALUES(2,'B',3,'PHYSICS',100);

INSERT INTO STUD VALUES(2,'B',4,'PHYSICS',200);

INSERT INTO STUD VALUES(2,'B',1,'CHEMISTRY',150);

INSERT INTO STUD VALUES(2,'B',2,'CHEMISTRY',150);

INSERT INTO STUD VALUES(2,'B',3,'CHEMISTRY',250);

INSERT INTO STUD VALUES(2,'B',4,'CHEMISTRY',300);

Q11. Write an SQL query to find the topper in each subject.

CREATE TABLE STUD(ID NUMBER,NAME VARCHAR2(10),SEMESTER NUMBER,SUBJECT VARCHAR2(10),MARKS NUMBER);

INSERT INTO STUD VALUES(1,'A',1,'PHYSICS',100);

INSERT INTO STUD VALUES(1,'A',2,'PHYSICS',150);

INSERT INTO STUD VALUES(1,'A',3,'PHYSICS',200);

INSERT INTO STUD VALUES(1,'A',4,'PHYSICS',250);

INSERT INTO STUD VALUES(1,'A',1,'CHEMISTRY',50);

INSERT INTO STUD VALUES(1,'A',2,'CHEMISTRY',250);

INSERT INTO STUD VALUES(1,'A',3,'CHEMISTRY',200);

INSERT INTO STUD VALUES(1,'A',4,'CHEMISTRY',350);

INSERT INTO STUD VALUES(2,'B',1,'PHYSICS',150);

INSERT INTO STUD VALUES(2,'B',2,'PHYSICS',250);

INSERT INTO STUD VALUES(2,'B',3,'PHYSICS',100);

INSERT INTO STUD VALUES(2,'B',4,'PHYSICS',200);

INSERT INTO STUD VALUES(2,'B',1,'CHEMISTRY',150);

INSERT INTO STUD VALUES(2,'B',2,'CHEMISTRY',150);

INSERT INTO STUD VALUES(2,'B',3,'CHEMISTRY',250);

INSERT INTO STUD VALUES(2,'B',4,'CHEMISTRY',300);

Q12.Write an SQL query to find if duplicate salary exists in salary column or not using rank or dense rank.

create table student(name varchar2(10),SUBJECT VARCHAR2(10),marks number);

insert into student values('A','PHY',10);

insert into student values('B','PHY',15);

insert into student values('C','PHY',20);

insert into student values('D','PHY',05);

insert into student values('A','CHE',15);

insert into student values('B','CHE',30);

insert into student values('C','CHE',10);

insert into student values('D','CHE',30);

insert into student values('A','MATH',20);

insert into student values('B','MATH',30);

insert into student values('C','MATH',15);

insert into student values('D','MATH',10);

Q13.Write a SQL query to fetch the student name who has appeared in only 1 subject using window function.

Create table Student(Studid number,NAME varchar2(10),Subject varchar2(20),marks number);

insert into student values(1,'A','Phy','90');

insert into student values(1,'A','Che','95');

insert into student values(2,'B','Phy','80');

insert into student values(2,'B','Che','85');

insert into student values(3,'C','Phy','90');

insert into student values(4,'D','Phy','75');

insert into student values(4,'D','Che','90');

Q14.Write a SQL query to fetch the student name who has appeared in more than 1 subject using window function.

Create table Student(Studid number,NAME varchar2(10),Subject varchar2(20),marks number);

insert into student values(1,'A','Phy','90');

insert into student values(1,'A','Che','95');

insert into student values(2,'B','Phy','80');

insert into student values(2,'B','Che','85');

insert into student values(3,'C','Phy','90');

insert into student values(4,'D','Phy','75');

insert into student values(4,'D','Che','90');