Database Machine Test Phase – 1

1. Create a database user with name testdb with password test.
2. Give permission to database user testdb.
3. Connect database user testdb.
4. Create a table with name customer with following structure:-

Column Name	Data Type
Id	Varchar2(10) primary key, check id like 'C%'
Name	Varchar2(30), check name in upper case.
City	Varchar2(8), city in 'Lucknow', 'Kanpur'
Contactno	Varchar2(10)

5. Insert following records in customer table

Id	Name	City	Contactno
C1001	BRIJESH MISHRA	Lucknow	9453318798
C1002	RAJAT SINGH	Lucknow	9450150719
C1003	DISHA SINGH	Kanpur	9936652039
C1004	AJAY VERMA	Kanpur	9838505980

6. Do following operations in customer table
   i.) Select those customers which belongs to Lucknow.
   ii.) Select those customers which Last Name is SINGH.
   iii.) Select Id, Name of customers.
   iv.) Select Customer in ascending order with Name.
   v.) Select Customer in descending order with Name.
7. Create table Product with following structure:-

Column Name	Data Type
Pid	Number(5) primary key
Pname	Varchar2(30)
Id	Varchar2(10) foreign key to Customer table

8. Insert following records in Product table

Pid	Pname	Id
101	Laptop	C1001
102	Projector	C1002
103	Scanner	C1002
104	Plotter	C1003
105	Printer	

9. Perform following operations:-
    i.)   Select name and pname from customer and product table based on id (Natural Join).
    ii.)   Select name and pname from customer and product table based on id (Left Join).
    iii.) Select name and pname from customer and product table based on id (Right Join).
10. Create a table with name staff as following structure:-

Column Name	Data Type
Staffid	Number(5) primary key
Name	Varchar2(30)
Salary	Number(8)

11. Create a view with name stf in which use staffid and name.
12. Test view stf with inserting some records.
13. Write a PL/SQL code to find greatest number in three unequal numbers.
14. Write a PL/SQL code to check given number is prime or not.