DATABASE MACHINE TEST

ID	Task	Signatures with Date	
		Student	Coordinator
1	Create a database with name 'practicedb'. In practicedb database create a table with name 'userinfo' with following structure:- <table><tr><td>Column Name</td><td>Data Type</td><td>Constraint</td></tr><tr><td>Firstname</td><td>Varchar(30)</td><td></td></tr><tr><td>Lastname</td><td>Varchar(30)</td><td></td></tr><tr><td>Contactno</td><td>Varchar(15)</td><td>Primary Key</td></tr><tr><td>Emailaddress</td><td>Varchar(50)</td><td></td></tr></table> Now add a new column gender with data type varchar(6) after Lastname.		
2.	Insert following records in userinfo table:- <table><tr><td>Firstname</td><td>Lastname</td><td>Gender</td><td>Contactno</td><td>Emailaddress</td></tr><tr><td>Brijesh</td><td>Mishra</td><td>Male</td><td>9453318798</td><td>brijesh@gmail.com</td></tr><tr><td>Rajat</td><td>Verma</td><td>Male</td><td>9936652039</td><td>rajat@gmail.com</td></tr><tr><td>Nisha</td><td>Singh</td><td>Female</td><td>9559763249</td><td>nisha@gmail.com</td></tr><tr><td>Priya</td><td>Singh</td><td>Female</td><td>7753001621</td><td>priya@gmail.com</td></tr></table>		
3.	Now perform following operations on userinfo table:- i. Select all records from userinfo table. ii. Select Firstname, Lastname, Emailaddress columns from userinfo table. iii. Select record with contactno 9453318798. iv. Select all records with gender 'Male'. v. Count records with gender 'Female'. vi. Update emailaddress with value 'brijesh.225409@gmail.com' for contactno 9453318798. vii. Delete record with contactno 7753001621. viii. Truncate table userinfo. ix. Drop table userinfo.		
4.	Create tables with following structures:- Table name:- country <table><tr><td>Column Name</td><td>Data Type</td><td>Constraint</td></tr><tr><td>Countryid</td><td>Int</td><td>Primary key Auto Increatement</td></tr><tr><td>Countryname</td><td>Varchar(100)</td><td></td></tr></table>		

Table name :- state

Column Name	Data Type	Constraint
Stated	Int	Primary Key Auto Increment
Statename	Varchar(100)	
Countryid	Int	Foreign Key references country (countryid)

Table Name:- city

Column Name	Data Type	Constraint
Cityid	Int	Primary Key Auto Increment
Cityname	Varchar(100)	
Stated	Int	Foreign Key references state (stateid)

5. Create a table login_info having following structure:-

Field_name	Data_Type	Constraints
User_id	int	Primary Key
Passwd	Varchar(10)	Not Null

6. i) Use alter command to add new field HINT_QUES with data type VARCHAR (30), in LOGIN_INFO table and view the table structure.
ii) Use alter command drop field HINT_QUES and view the table structure.
iii) Use alter command modify PASSWD field of LOGIN_INFO table with Data Type VARCHAR (15) and view the table structure.

7. **EMPLOYEES**

Field/Column Name	Type	size	Constraint
Employee_id	Int		P.K.
Employee_Name	Varchar	20	Null

ORDERS

Field/Column Name	Type	Size	Constraint		
Product_Id	int		P.K.		
Product	Varchar	20	Null		
Employee_id	int		Foreign Key References Employee_id of Employees		

8.	Insert the record into table Employee and Orders with following specification:-			

Employee_Id	Employee_Name
1001	Karan
1002	Shikhar
1003	Rajan
1004	Priya

Product_Id	Product	Employee_Id
1	Table	1001
2	Chair	1002
3	Printer	1003
4	Projector	

9.	i) Perform select operation to select Employee_Name Employee Table and Product from Orders Table based on Employee_Id. ii) Perform select operation using left join to select Employee_Name from Employees table and product from Orders table based on Employee_Id. iii) Perform select operation using right join to select Employee_Name Employees table and product from Orders table based on Employee_Id.			
10.	Export Database practicedb.			