

**DATABASE MACHINE TEST**

ID	Task	Signatures with Date																										
		Student	Coordinator																									
1	<p>Create a database with name 'practicedb'. In practicedb database create a table with name 'userinfo' with following structure:-</p> <table border="1"> <thead> <tr> <th>Column Name</th> <th>Data Type</th> <th>Constraint</th> </tr> </thead> <tbody> <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> </tbody> </table> <p>Now add a new column gender with data type varchar(6) after Lastname.</p>	Column Name	Data Type	Constraint	Firstname	Varchar(30)		Lastname	Varchar(30)		Contactno	Varchar(15)	Primary Key	Emailaddress	Varchar(50)													
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2.	<p>Insert following records in userinfo table:-</p> <table border="1"> <thead> <tr> <th>Firstname</th> <th>Lastname</th> <th>Gender</th> <th>Contactno</th> <th>Emailaddress</th> </tr> </thead> <tbody> <tr> <td>Brijesh</td> <td>Mishra</td> <td>Male</td> <td>9453318798</td> <td><a href="mailto:brijesh@gmail.com">brijesh@gmail.com</a></td> </tr> <tr> <td>Rajat</td> <td>Verma</td> <td>Male</td> <td>9936652039</td> <td><a href="mailto:rajat@gmail.com">rajat@gmail.com</a></td> </tr> <tr> <td>Nisha</td> <td>Singh</td> <td>Female</td> <td>9559763249</td> <td><a href="mailto:nisha@gmail.com">nisha@gmail.com</a></td> </tr> <tr> <td>Priya</td> <td>Singh</td> <td>Female</td> <td>7753001621</td> <td><a href="mailto:priya@gmail.com">priya@gmail.com</a></td> </tr> </tbody> </table>	Firstname	Lastname	Gender	Contactno	Emailaddress	Brijesh	Mishra	Male	9453318798	<a href="mailto:brijesh@gmail.com">brijesh@gmail.com</a>	Rajat	Verma	Male	9936652039	<a href="mailto:rajat@gmail.com">rajat@gmail.com</a>	Nisha	Singh	Female	9559763249	<a href="mailto:nisha@gmail.com">nisha@gmail.com</a>	Priya	Singh	Female	7753001621	<a href="mailto:priya@gmail.com">priya@gmail.com</a>		
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3.	<p>Now perform following operations on userinfo table:-</p> <ol style="list-style-type: none"> <li>i. Select all records from userinfo table.</li> <li>ii. Select Firstname, Lastname, Emailaddress columns from userinfo table.</li> <li>iii. Select record with contactno 9453318798.</li> <li>iv. Select all records with gender 'Male'.</li> <li>v. Count records with gender 'Female'.</li> <li>vi. Update emailaddress with value 'brijesh.225409@gmail.com' for contactno 9453318798.</li> <li>vii. Delete record with contactno 7753001621.</li> <li>viii. Truncate table userinfo.</li> <li>ix. Drop table userinfo.</li> </ol>																											
4.	<p>Create tables with following structures:-</p> <p>Table name:- country</p> <table border="1"> <thead> <tr> <th>Column Name</th> <th>Data Type</th> <th>Constraint</th> </tr> </thead> <tbody> <tr> <td>Countryid</td> <td>Int</td> <td>Primary key Auto Increment</td> </tr> <tr> <td>Countryname</td> <td>Varchar(100)</td> <td></td> </tr> </tbody> </table>	Column Name	Data Type	Constraint	Countryid	Int	Primary key Auto Increment	Countryname	Varchar(100)																			
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	<p>Table name :- state</p> <table border="1"> <thead> <tr> <th>Column Name</th><th>Data Type</th><th>Constraint</th></tr> </thead> <tbody> <tr> <td>Stated</td><td>Int</td><td>Primary Key Auto Increment</td></tr> <tr> <td>Statename</td><td>Varchar(100)</td><td></td></tr> <tr> <td>Countryid</td><td>Int</td><td>Foreign Key references country (countryid)</td></tr> </tbody> </table> <p>Table Name:- city</p> <table border="1"> <thead> <tr> <th>Column Name</th><th>Data Type</th><th>Constraint</th></tr> </thead> <tbody> <tr> <td>Cityid</td><td>Int</td><td>Primary Key Auto Increment</td></tr> <tr> <td>Cityname</td><td>Varchar(100)</td><td></td></tr> <tr> <td>Stated</td><td>Int</td><td>Foreign Key references state (stateid)</td></tr> </tbody> </table>	Column Name	Data Type	Constraint	Stated	Int	Primary Key Auto Increment	Statename	Varchar(100)		Countryid	Int	Foreign Key references country (countryid)	Column Name	Data Type	Constraint	Cityid	Int	Primary Key Auto Increment	Cityname	Varchar(100)		Stated	Int	Foreign Key references state (stateid)	
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5.	<p>Create a table login_info having following structure:-</p> <table> <thead> <tr> <th>Field_name</th><th>Data_Type</th><th>Constraints</th></tr> </thead> <tbody> <tr> <td>User_id</td><td>int</td><td>Primary Key</td></tr> <tr> <td>Passwd</td><td>Varchar(10)</td><td>Not Null</td></tr> </tbody> </table>	Field_name	Data_Type	Constraints	User_id	int	Primary Key	Passwd	Varchar(10)	Not Null																
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6.	<p>i) Use alter command to add new field HINT_QUEST with data type VARCHAR (30), in LOGIN_INFO table and view the table structure.  ii) Use alter command drop field HINT_QUEST 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.</p>																									
7.	<p><b><u>EMPLOYEES</u></b></p> <table border="1"> <thead> <tr> <th>Field/Column Name</th><th>Type</th><th>size</th><th>Constraint</th></tr> </thead> <tbody> <tr> <td>Employee_id</td><td>Int</td><td></td><td>P.K.</td></tr> <tr> <td>Employee_Name</td><td>Varchar</td><td>20</td><td>Null</td></tr> </tbody> </table> <p><b><u>ORDERS</u></b></p>	Field/Column Name	Type	size	Constraint	Employee_id	Int		P.K.	Employee_Name	Varchar	20	Null													
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8.	<p>Insert the record into table Employee and Orders with following specification:-</p> <table border="1"> <thead> <tr> <th>Employee_Id</th><th>Employee_Name</th></tr> </thead> <tbody> <tr> <td>1001</td><td>Karan</td></tr> <tr> <td>1002</td><td>Shikhar</td></tr> <tr> <td>1003</td><td>Rajan</td></tr> <tr> <td>1004</td><td>Priya</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Product_Id</th><th>Product</th><th>Employee_Id</th></tr> </thead> <tbody> <tr> <td>1</td><td>Table</td><td>1001</td></tr> <tr> <td>2</td><td>Chair</td><td>1002</td></tr> <tr> <td>3</td><td>Printer</td><td>1003</td></tr> <tr> <td>4</td><td>Projector</td><td></td></tr> </tbody> </table>	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			
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9.	<p>i) Perform select operation to select Employee_Name Employee Table and Product from Orders Table based on Employee_Id.</p> <p>ii) Perform select operation using left join to select Employee_Name from Employees table and product from Orders table based on Employee_Id.</p> <p>iii) Perform select operation using right join to select Employee_Name Employees table and product from Orders table based on Employee_Id.</p>																											
10.	Export Database practicedb.																											