

DATABASE TECHNICAL TASK – 4

ID	Task	Signatures with Date																																																									
		Student	Coordinator																																																								
4.1	Create a new database in MySql with name 'testdb'. In 'testdb' database create a table 'bookstore' with following structure:- <table><tr><td>Column Name</td><td>Data Type</td><td>Constraint</td></tr><tr><td>bookid</td><td>varchar(15)</td><td>Primary Key</td></tr><tr><td>isbnno</td><td>varchar(15)</td><td></td></tr><tr><td>program</td><td>varchar(100)</td><td></td></tr><tr><td>branch</td><td>varchar(100)</td><td></td></tr><tr><td>subject</td><td>varchar(100)</td><td></td></tr><tr><td>bookname</td><td>varchar(100)</td><td></td></tr><tr><td>authorname</td><td>varchar(100)</td><td></td></tr></table>	Column Name	Data Type	Constraint	bookid	varchar(15)	Primary Key	isbnno	varchar(15)		program	varchar(100)		branch	varchar(100)		subject	varchar(100)		bookname	varchar(100)		authorname	varchar(100)																																			
	Column Name	Data Type	Constraint																																																								
	bookid	varchar(15)	Primary Key																																																								
	isbnno	varchar(15)																																																									
	program	varchar(100)																																																									
	branch	varchar(100)																																																									
	subject	varchar(100)																																																									
	bookname	varchar(100)																																																									
	authorname	varchar(100)																																																									
4.2	Insert following records in bookstore table:- <table><tr><td>Bookid</td><td>isbnno</td><td>program</td><td>branch</td><td>subject</td><td>bookname</td><td>authorname</td></tr><tr><td>TMBU1</td><td>12345678</td><td>B.Tech.</td><td>CS</td><td>C</td><td>Let Us C</td><td>Y.P.Kanetkar</td></tr><tr><td>TMBU2</td><td>12345678</td><td>B.Tech.</td><td>CS</td><td>C</td><td>Let Us C</td><td>Y.P.Kanetkar</td></tr><tr><td>TMBU3</td><td>12345678</td><td>B.Tech.</td><td>CS</td><td>C</td><td>Let Us C</td><td>Y.P.Kanetkar</td></tr><tr><td>TMBU4</td><td>12345679</td><td>B.Tech.</td><td>CS</td><td>Java</td><td>Effective Java</td><td>Joshua Bloch</td></tr><tr><td>TMBU5</td><td>12345679</td><td>B.Tech.</td><td>CS</td><td>Java</td><td>Effective Java</td><td>Joshua Bloch</td></tr><tr><td>TMBU6</td><td>12345679</td><td>B.Tech.</td><td>CS</td><td>Java</td><td>Effective Java</td><td>Joshua Bloch</td></tr><tr><td>TMBU7</td><td>12345688</td><td>B.Tech.</td><td>IT</td><td>Database</td><td>RDBMS Using MySQL</td><td>Brijesh Mishra</td></tr></table>	Bookid	isbnno	program	branch	subject	bookname	authorname	TMBU1	12345678	B.Tech.	CS	C	Let Us C	Y.P.Kanetkar	TMBU2	12345678	B.Tech.	CS	C	Let Us C	Y.P.Kanetkar	TMBU3	12345678	B.Tech.	CS	C	Let Us C	Y.P.Kanetkar	TMBU4	12345679	B.Tech.	CS	Java	Effective Java	Joshua Bloch	TMBU5	12345679	B.Tech.	CS	Java	Effective Java	Joshua Bloch	TMBU6	12345679	B.Tech.	CS	Java	Effective Java	Joshua Bloch	TMBU7	12345688	B.Tech.	IT	Database	RDBMS Using MySQL	Brijesh Mishra		
	Bookid	isbnno	program	branch	subject	bookname	authorname																																																				
	TMBU1	12345678	B.Tech.	CS	C	Let Us C	Y.P.Kanetkar																																																				
	TMBU2	12345678	B.Tech.	CS	C	Let Us C	Y.P.Kanetkar																																																				
	TMBU3	12345678	B.Tech.	CS	C	Let Us C	Y.P.Kanetkar																																																				
	TMBU4	12345679	B.Tech.	CS	Java	Effective Java	Joshua Bloch																																																				
	TMBU5	12345679	B.Tech.	CS	Java	Effective Java	Joshua Bloch																																																				
	TMBU6	12345679	B.Tech.	CS	Java	Effective Java	Joshua Bloch																																																				
	TMBU7	12345688	B.Tech.	IT	Database	RDBMS Using MySQL	Brijesh Mishra																																																				
4.3	Perform following operations on bookstore table:- <div><div>i.</div>Select bookid, isbnno, program, bookname, authorname from bookstore table with all rows.</div> <div><div>ii.</div>Select all books of 'CS' branch.</div> <div><div>iii.</div>Count no. of books with name 'Let Us C'.</div> <div><div>iv.</div>Update authorname with 'Vipin C. Desai' for bookid TMBU7.</div> <div><div>v.</div>Delete record of book with bookid TMBU7.</div>																																																										
	4.4.	Create a table with name 'issuebook' with following structure:- <table><tr><td>Column Name</td><td>Data Type</td><td>Constraint</td></tr><tr><td>issueid</td><td>Int</td><td>Primary Key</td></tr><tr><td>bookid</td><td>varchar(15)</td><td>Foreign Key references to bookstore.</td></tr></table>	Column Name	Data Type	Constraint	issueid	Int	Primary Key	bookid	varchar(15)	Foreign Key references to bookstore.																																																
		Column Name	Data Type	Constraint																																																							
		issueid	Int	Primary Key																																																							
		bookid	varchar(15)	Foreign Key references to bookstore.																																																							

	<table><tr><td>Rollno</td><td>Int</td><td></td></tr><tr><td>studentname</td><td>varchar(50)</td><td></td></tr><tr><td>Bookname</td><td>varchar(100)</td><td></td></tr><tr><td>authorname</td><td>varchar(100)</td><td></td></tr></table>	Rollno	Int		studentname	varchar(50)		Bookname	varchar(100)		authorname	varchar(100)																					
Rollno	Int																																
studentname	varchar(50)																																
Bookname	varchar(100)																																
authorname	varchar(100)																																
4.5	<p>Insert following records in 'issuebook' table:-</p> <table><tr><td>issueid</td><td>Bookid</td><td>rollno</td><td>studentname</td><td>bookname</td><td>authorname</td></tr><tr><td>1</td><td>TMBU1</td><td>1001</td><td>Rajat Singh</td><td>Let Us C</td><td>Y.P.Kanetkar</td></tr><tr><td>2</td><td>TMBU4</td><td>1001</td><td>Rajat Singh</td><td>Effective Java</td><td>Joshua Bloch</td></tr><tr><td>3</td><td>TMBU2</td><td>1002</td><td>Dinesh Singh</td><td>Let Us C</td><td>Y.P.Kanetkar</td></tr><tr><td>4</td><td>TMBU5</td><td>1003</td><td>Nisha Kumari</td><td>Effective Java</td><td>Joshua Bloch</td></tr></table>	issueid	Bookid	rollno	studentname	bookname	authorname	1	TMBU1	1001	Rajat Singh	Let Us C	Y.P.Kanetkar	2	TMBU4	1001	Rajat Singh	Effective Java	Joshua Bloch	3	TMBU2	1002	Dinesh Singh	Let Us C	Y.P.Kanetkar	4	TMBU5	1003	Nisha Kumari	Effective Java	Joshua Bloch		
issueid	Bookid	rollno	studentname	bookname	authorname																												
1	TMBU1	1001	Rajat Singh	Let Us C	Y.P.Kanetkar																												
2	TMBU4	1001	Rajat Singh	Effective Java	Joshua Bloch																												
3	TMBU2	1002	Dinesh Singh	Let Us C	Y.P.Kanetkar																												
4	TMBU5	1003	Nisha Kumari	Effective Java	Joshua Bloch																												
4.6	<p>i. Select bookid, isbnno, rollno, studentname, bookname, authorname from bookstore and issuebook tables using inner join operation.</p> <p>ii. Select bookid, isbnno, rollno, studentname, bookname, authorname from bookstore and issuebook tables using full outer join operation.</p>																																
4.7	<p>Create a table 'staff' with following structure:-</p> <table><tr><td>Column Name</td><td>Data Type</td><td>Constraint</td></tr><tr><td>staffid</td><td>Varchar(10)</td><td>Primary Key</td></tr><tr><td>staffname</td><td>Varchar(50)</td><td></td></tr><tr><td>department</td><td>Varchar(100)</td><td></td></tr><tr><td>salary</td><td>int</td><td></td></tr></table> <p>Now create a view with name 'st' having fields staffid, staffname, department.</p> <p>Now insert some records in 'st' view.</p>	Column Name	Data Type	Constraint	staffid	Varchar(10)	Primary Key	staffname	Varchar(50)		department	Varchar(100)		salary	int																		
Column Name	Data Type	Constraint																															
staffid	Varchar(10)	Primary Key																															
staffname	Varchar(50)																																
department	Varchar(100)																																
salary	int																																