<u>Paper No</u>: CS3019 Subject: Introduction to Database Management Systems <u>Program</u>: 5 Years Integrated M.Sc.(IT) <u>Semester</u>: 01

Practical No: 1	Enrolment No:			
Practical Problem	Create following tables:			
	PRODUCT_MASTER (PRODUCT NO, PRODUCT NAME,			
	PURCHASE DATE, PRICE, QUANTITY, DISTRIBUTER NAME)			
	SALESM	1AN (SALEMAN_NO, SN	IAME, ADDRESS1, ADDRESS2, (CITY,
	PINCOD	DE, STATE)		
	PROJEC	T (PROJECT_ID, PROJEC	CT_NAME)	
		ecords in each table.		
	Guidelines for re	1		
	PRODUCT	PRODUCT_NAME	Must start with capital letter.	
	_MASTER	PURCHASE_DATE	Should be less than current	
		PINCODE	Must be of six digits only.	
	SALESMAN	SNAME	Must start with capital letter.	
		CITY	Must be valid city name.	
Objective(s)		·	le creation with data insertion	and
		ut basic data types		
Pre-requisite	Knowledge abo	ut basic data types of DE	32, CREATE and INSERT statemer	nts
Duration for completion	2 hours			
PEO(s) to be achieved	PEO4: To develop the awareness and skills to become professionally			
	Competent leaders in service to industry.			
PO(s) to be achieved	PO2: Ability to design and develop system, component or process as well as			
	test and maintain it.			
CO(s) to be achieved		· ·	statements over one or more ta	bles
		re and retrieve data.		
Solution must contain	DDL and DML q	uery statements		
Nature of submission	Handwritten			
References for solving	Beginning DB2: From Novice to Professional, Allen G. (Page No: 245-255)			
the problem	http://www.w3schools.com/Sql/sql_create_table.asp			
Post Laboratory	Post Laboratory questions:			
questions	List any two information about table stored in data dictionary			
•	after successfully creation of table.			
	2. What is the purpose of DDL interpreter?			
	3. Write two basic rules to give table name.			
	4. Describe a best suitable situation where VARCHAR can be used			
	instead of CHAR.			
		Assessment		
		ieves the desired	Viva	
Out of Marks	Obje	ective(s)	5	-
Secured by the student		10	3	\dashv
Signature				-
Date				1

Practical No: 2	Enrolment No:		Group : A	
Practical Problem	Create following tables with necessary constraints:			
	TBL_STUDENT (<u>STID</u> , DEPTID, STNAME, DATE_OF_BIRTH, CITY, EMAIL_ID,			
	CONTACT_NUMBER, GENDER)			
	TBL_DEPARTMENT (DEPTID, DEPT_NAME)			
	Apply following	constraints at the t	ime of table creation.	
		ry key to EMPID an		
	1	attribute of DEP ISc(IT)" or "BCA" or	ARTMENT table should hav · "MRA"	e value either
		` '	ribute of TBL_DEPARTMENT in	TBI STUDENT
	table.	in Key to DEI IID att		152_51652141
		bute value of EMPI	OYEE table should be non neg	ative value.
			T table should have value ei	
	Insert five records in e	each table.		
	TBL_DEPARTMENT	DEPTNO	Enter 101, 102, 103, 104, 105 number	for department
	TBL_STUDENT	STNAME	Must start with capital letter.	
		CITY	Must be valid city name.	
		CONTACT_NUMBE	R Must be non negative value.	
		DATE_OF_BIRTH	Should be 18 years less than	current date.
Objective(s)	To make them understand table creation with constraints.			
Pre-requisite	Knowledge about various constraints			
Duration for	2 hours			
completion				
PEO(s) to be achieved	PEO4: To develop the awareness and skills to become professionally competent leaders			
	in service to industry.			
PO(s) to be achieved	PO2: Ability to design and develop system, component or process as well as test and			
	maintain it.			
CO(s) to be achieved	Use data definition and manipulation statements over one or more tables using SQL to			
	store and retrieve data.			
Solution must contain	DDL and DML query statements			
Nature of submission	Handwritten			
References for solving	Beginning DB2: From Novice to Professional, Allen G. (Page No 250-255)			
the problem	http://www.w3schools.com/Sql/sql_constraints.asp			
Post Laboratory	Post Laboratory questions:			
questions	1. What is NOT NULL constraint? When will you use it?			
	2. What is composite primary key? State its syntax.			
	3. What is primary key constraint?			
	4. Consider an attribute with only foreign key constraint. Can that attribute hold			
	null entries in it? Justify.			
	6-1-11-	Assessment	1.0° .	
	Solution achiev		Viva	
	object	ive(s)		

Out of Marks	10	5	
Secured by the student			
Signature			
Date			

Practical No: 3	Enrolment No:	Group : A		
Practical Problem	Create following tables with necessary constraints:			
	 PRODUCT_MST(PROD_ID, PROD_NAME, PROD_DESC, PROD_RATE) 			
	 SALES_ORDER_DTL(SALES_ID, SALES_DATE, CUSTOMER_NAME, 			
	ORDER_CITY, PROD_ID , QUANTITY)			
	Solve following queries:			
	(1) Display PROD_ID, PROD_NAME and PROD_RATE for all the			
	products.			
	(2) Display SALES_ID, SALES_DATE, and QUANTITY for all the sales.			
	(3) Display all product details h	(3) Display all product details having SALES_ID greater than 2.		
	(4) Update ORDER_CITY to Bar	doli in SALES_ORDER_DTL table.		
	(5) Update ORDER_CITY to Sur	rat in SALES_ORDER_DTL having SALES_ID		
	greater than 3.			
	(6) Update all the orders by de	ecreasing 5 for all QUANTITY.		
	(7) Update all the products by			
	(8) Delete all the sales order d	etails which are from Surat.		
Objective(s)	To make them understand simple select statements, update and delete			
	commands.			
Pre-requisite	Knowledge about SELECT, UPDATE and DELETE commands with WHERE			
	clause.			
Duration for completion	2 hours			
PEO(s) to be achieved	PEO4: To develop the awareness and skills to become professionally			
	competent leaders in service to ind	•		
PO(s) to be achieved		system, component or process as well as		
00(1) (1) (1) (1)	test and maintain it.			
CO(s) to be achieved	Use data definition and manipulation statements over one or more tables			
	using SQL to store and retrieve data	a		
Solution must contain	DDL and DML query statements			
Nature of submission	Handwritten			
References for solving	Beginning DB2: From Novice to Professional, Allen G. (Page No 255-283)			
the problem	http://www.w3schools.com/Sql/sql_where.asp			
Post Laboratory	Post Laboratory questions:			
questions	 How to change the colum table for display purpose? 	n headings while fetching data from the		
	2. Give the output of the foll			
		ET PROD ID = 10 WHERE 1=2;		
	How 1=2 is evaluated in a			
	_	attribute to the table, write a query to		
	display PROD_ID, PROD_NAME, PROD_RATE and NewRate for a			
	•	three times more than PROD_RATE)		
	4. How to update multiple of	attributes in single update statement in		

DB2? Give example of it.			
	Assessment		
	Solution achieves the desired objective(s)	Viva	
Out of Marks	10	5	
Secured by the student			
Signature			
Date			

Practical No: 4	Enrolment No:	Group : A	
Practical Problem	Use tables PRODUCT_MST and SALES_ORDER_DTL created in practical no. 3 and		
	solve following queries:		
	(1) Display product details with PROD_RATE greater than 50.		
	(2) Display sales order detail with ORDER_CITY is "Bardoli".		
	(3) Display sales order detail with PROD_RATE is in between 5 to 50.		
	(4) Display product details with their PROD_NAME starts with 'P'.		
		neir PROD_NAME ends with 'S'.	
		ORDER_CITY is "Bardoli" and QUANTITY is	
	greater than 25.		
		PROD_NAME starts with 'C' or PROD_RATE	
	is greater than 35.	ish are and and hafare "15 Avenuet 2014"	
		ich are placed in July 2014	
		th of the PROD_NAME is 5 characters.	
Objective(s)	To make them understand conditional	-	
Pre-requisite			
rie-iequisite	Knowledge about SELECT command with WHERE clause, various operators and		
Dtian fan aansalatian	functions.		
Duration for completion	2 hours		
PEO(s) to be achieved	PEO4: To develop the awareness and skills to become professionally competent		
20/11 11 1	leaders in service to industry. PO2: Ability to design and develop system, component or process as well as test		
PO(s) to be achieved	, , ,	stem, component or process as well as test	
CO(s) to be achieved	and maintain it.	n statements over one or more tables using	
CO(s) to be achieved		n statements over one or more tables using	
	SQL to store and retrieve data.		
Solution must contain	DML query statements		
Nature of submission	Handwritten		
References for solving	Beginning DB2: From Novice to Professional, Allen G. page no 255-276		
the problem	http://www.w3schools.com/Sql/sql_wildcards.asp		
Post Laboratory	Post Laboratory questions:		
questions	1. In the WHERE clause what is the use of BETWEEN and IN?		
	2. Solve query no – 9 by using another alternative.		
	3. How do you eliminate duplicate values in output of SELECT statement?		
	4. Describe a situation where it is best suitable to use LIKE operator.		
	Assessment		
	Solution achieves the desired	Viva	
Out of Marks	objective(s)		
	10	5	
Secured by the student			
Signature			
Date			

Author_id (Author_Id, Author_Name, City, Contact_Number) Book(Book_Id, Book_title, Book_Quantity, Book_Price, Author_Id) Make Author_Id of Author & Book_Id of Book table as Primary key. Apply necessary constraints while creating tables. 1. Author_Id as foreign key in Book table. 2. Book_Quantity cannot store null value. 3. Book_Quantity must be greater than 1. 4. Insert 10 records in each table. Perform the following queries: 1. Display author details who are from 'Surat' as well as 'Mumbai'. 2. Display the Book_title for a book title starting with 'A'. 3. List the book name and available quantity whose price is more than 350 but less than 1500. 4. Display book details whose price is 450 and the Book_quantity is 20 Objective(s) To make them understand concepts of string operations Pre-requisite Knowledge about select from and where clauses Duration for completion PEO(s) to be achieved PEO4: To develop the awareness and skills to become professionally competent leaders in service to industry. PO(s) to be achieved Use data definition and manipulation statements over one or more tables using SQL to store and retrieve data. Solution must contain Nature of submission References for solving the problem Post Laboratory Questions: 1. What are the rules for giving a table name while creating a table? 2. What is the difference between DELETE and DROP commands? 3. What do you mean by constraint? 4. What is the difference between CHAR and VARCHAR data type? Assessment Solution Achieves the desired objective(s) Out of Marks Signature	Practical No: 5	Enrolment No:	Group : A	
Book(Book_Id, Book_title, Book_Quantity, Book_Price, Author_Id) Make Author_Id of Author & Book_Id of Book table as Primary key. Apply necessary constraints while creating tables. 1. Author_Id as foreign key in Book table. 2. Book_Quantity cannot store null value. 3. Book_Quantity must be greater than 1. 4. Insert 10 records in each table. Perform the following queries: 1. Display author details who are from 'Surat' as well as 'Mumbai'. 2. Display the Book_title for a book title starting with 'A'. 3. List the book name and available quantity whose price is more than 350 but less than 1500. 4. Display book details whose price is 450 and the Book_quantity is 20 Objective(s) To make them understand concepts of string operations Pre-requisite Knowledge about select from and where clauses Duration for completion PEO(s) to be achieved PEO4: To develop the awareness and skills to become professionally competent leaders in service to industry. PO(s) to be achieved PO2: Ability to design and develop system, component or process as well as test and maintain it. CO(s) to be achieved CO(s) to be achieved DML query statements Nature of submission References for solving the problem Post Laboratory questions: 1. What are the rules for giving a table name while creating a table? 2. What is the difference between DELETE and DROP commands? 3. What do you mean by constraint? 4. What is the difference between CHAR and VARCHAR data type? Assessment Solution achieves the desired objective(s) Out of Marks 5. Solution achieves the desired objective(s)	Practical Problem	Create the following table with proper	constraints:	
Make Author_Id of Author & Book_Id of Book table as Primary key. Apply necessary constraints while creating tables. 1. Author_Id as foreign key in Book table. 2. Book_Quantity cannot store null value. 3. Book_Quantity must be greater than 1. 4. Insert 10 records in each table. Perform the following queries: 1. Display author details who are from 'Surat' as well as 'Mumbai'. 2. Display the Book_title for a book title starting with 'A'. 3. List the book name and available quantity whose price is more than 350 but less than 1500. 4. Display book details whose price is 450 and the Book_quantity is 20 Objective(s) To make them understand concepts of string operations Pre-requisite Knowledge about select from and where clauses Duration for completion PEO(s) to be achieved PEO4: To develop the awareness and skills to become professionally competent leaders in service to industry. PO(s) to be achieved PO2: Ability to design and develop system, component or process as well as test and maintain it. CO(s) to be achieved Use data definition and manipulation statements over one or more tables using SQL to store and retrieve data. Solution must contain Nature of submission References for solving Beginning DB2: From Novice to Professional, Allen G, page no 255-276 http://www.w3schools.com/Sql/sql wildcards.asp Post Laboratory questions 1. What are the rules for giving a table name while creating a table? 2. What is the difference between DELETE and DROP commands? 3. What do you mean by constraint? 4. What is the difference between CHAR and VARCHAR data type? Assessment Solution achieves the desired objective(s) Out of Marks 5. Solution achieves the desired objective(s)		Author_id (Author_Id, Author_Name, City, Contact_Number)		
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Pre-requisite Nowledge about select from and where clauses Duration for completion 2 hours		4. Display book details whose pr	ice is 450 and the Book_quantity is 20	
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PEO(s) to be achieved PEO(s) to be achieved PO(s) to be achieved PO2: Ability to design and develop system, component or process as well as test and maintain it. CO(s) to be achieved Use data definition and manipulation statements over one or more tables using SQL to store and retrieve data. Solution must contain Nature of submission References for solving the problem Post Laboratory questions Post Laboratory questions 1. What are the rules for giving a table name while creating a table? 2. What is the difference between DELETE and DROP commands? 3. What do you mean by constraint? 4. What is the difference between CHAR and VARCHAR data type? Assessment Solution achieves the desired objective(s) Out of Marks Secured by the student Signature	Duration for completion	2 hours		
leaders in service to industry.	•	PEO4: To develop the awareness and skills to become professionally competent		
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http://www.w3schools.com/Sql/sql_wildcards.asp Post Laboratory questions: 1. What are the rules for giving a table name while creating a table? 2. What is the difference between DELETE and DROP commands? 3. What do you mean by constraint? 4. What is the difference between CHAR and VARCHAR data type? Assessment Solution achieves the desired objective(s) Out of Marks 10 5 Secured by the student Signature	Nature of submission	Handwritten		
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Date	Date			

Practical No: 6	Enrolment No:	Group : A	
Practical Problem	Create the following table with proper constraints:		
	TrainMaster (Train_ID, Trainname, Source, Destination, Scheduled_days, Sdate,		
	Enddate)		
	Passenger (Passenger_ID ,Train_ID,Travel_date , PName, City)		
	Make Train_ID of TrainMaster & Passenger_ID of Passenger table as Primary key.		
	Apply necessary constraints while creating tables.		
	Train_Id as foreign key in Passenger table.		
	3. Scheduled_days car	nnot store null value.	
	4. Enddate must be gr		
	Perform the following queries:		
	Display Passenger details who	are from 'Mumbai'.	
	2. Display the Train details for a		
		rains whose scheduled days are more than 3	
	and source station is 'Udaipur'		
	4. Display passenger details who are from 'Mumbai' and are travelling		
	on'2015-10-02'		
Objective(s)	To make them understand concepts of string operations		
Pre-requisite	Knowledge about select from and where clauses		
Duration for completion	2 hours		
PEO(s) to be achieved	PEO4: To develop the awareness and skills to become professionally competent		
	leaders in service to industry.		
PO(s) to be achieved	PO2: Ability to design and develop sy	stem, component or process as well as test	
	and maintain it.		
CO(s) to be achieved	Use data definition and manipulation	n statements over one or more tables using	
	SQL to store and retrieve data.		
Solution must contain	DML query statements		
Nature of submission	Handwritten		
References for solving	Beginning DB2: From Novice to Professional, Allen G. page no 255-276		
the problem	http://www.w3schools.com/Sql/sql_wildcards.asp		
Post Laboratory	Post Laboratory questions:		
questions	How HAVING and WHERE clauses differ from each other?		
44.000.000	2. How to sort the data in SQL?		
	3. List and explain data types a	vailable in MySQL.	
	4. What are the four objectives of the selection of a data type?		
Assessment			
	Solution achieves the desired	Viva	
	objective(s)		
Out of Marks	10	5	
Secured by the student			
Signature			
Date			

Practical No: 7	Enrolment No:	Group : A	
Practical Problem	Create following tables:		
	Suppliers(supplier_id, supplier_name, supplier_address, supplier_contactname)		
	Product(product_code, product_name,product_description,supplier_id)		
	1. Perform cross join on both the tak		
	2. Extract the product name and supplier name for each row in our product table		
	(use inner join)	plier name for each row in our product table	
	(use left join)	pher hame for each row in our product table	
		plier name for each row in our product table	
	(use right join)	p	
	5. List only the products supplied by	Microsoft.	
Objective(s)	To make them understand concepts	•	
Pre-requisite	Knowledge about select from and v	vhere clauses	
Duration for completion	2 hours		
PEO(s) to be achieved	PEO4: To develop the awareness and skills to become professionally competent		
	leaders in service to industry.		
PO(s) to be achieved		system, component or process as well as test	
CO(s) to be achieved	and maintain it.	on statements over one or more tables using	
CO(5) to be achieved	SQL to store and retrieve data.	on statements over one or more tables using	
Solution must contain	· ·		
	DML query statements Handwritten		
Nature of submission	Handwritten http://www.techotopia.com/index.php/Joining Tables in MySQL		
References for solving	nttp://www.tecnotopia.com/index.	prip/Joining Tables in MySQL	
the problem			
Post Laboratory	Post Laboratory questions:		
questions	 What is a join? What is use of LIKE operator? 		
	3. What is "CROSS JOIN"? or Who	nt is Cartesian product?	
	4. How HAVING and WHERE clauses differ from each other?		
	Assessment		
	Solution achieves the desired	Viva	
	objective(s)		
Out of Marks	10	5	
Secured by the student			
Signature			
Date			