UNIT TEST 4 – Set A

Computer Science (083)

Class – XII

Max. Marks:35

General Instructions:

- 1. This question paper consists of 4 sections A, B,C and D. Each part is compulsory
- 2. Section A has 10 questions carrying 01 mark each
- 3. Section Bhas4 questions carrying 02 marks each
- 4. Section Chas3 questions carrying 03 marks each
- 5. Section D has 2 questions carrying 04 marks

	Section A	10
1	State True or False Count(*) results in the total number of records including NULL and duplicate	1
	values.	
2	Which of the following functions is not an aggregate function in SQL? a)Round() b) Sum() c) Count () d) Avg ()	1
3	What is the format of date data type in MySQL? a) 'mm-dd-yy' b) 'dd-mm-yyyy' c) 'yyyy-mm-dd' d) 'yy-mm-dd'	1
4	Assertion (A) : The DISTINCT clause eliminates duplicate rows from the results of a SELECT statement	1
	Reason(R) : If you use the DISTINCT clause with a column having multiple NULL values, then they will be displayed only once	
	a) Both A and R are true and R is the correct explanation of A	
	b) Both A and R are true and R is not the correct explanation of A	
	c) A is true but R is false	
-	d) A is false but R is true	1
5	conditions on groups	T
	Reason (R) : Where clause places conditions on individual rows	
	a) Both A and R are true and R is the correct explanation of A	
	b) Both A and R are true and R is not the correct explanation of A	
	d) A is false but R is false	
6	Relation R1 has 5 tuples and 4 attributes. Relation R2 has 6 tuples and 5 attrib-	1
	utes. When a NATURAL JOIN is achieved between R1 and R2, how many attrib-	
	utes would the resultant set have?	
	a) 20 b) 9 c)8 d)10	
7	Which of the following is not a relational operator in MySQL?	1
	a) != b) == c)<> d)<=	
8	Which of the following is not a datatype in MySQL?	1
	a)int b) string c) float d) date	

-							
9	Which of the following commondate wood to non-out a database?						
	a) DROP b) REMOVE c) DELETE D)ALTER						
10	To check whether a value in a table is NULL or not, the operator is 1					1	
	used.						
	a) = b)	NOT NI	JLL c) IS NULL D) !	=			
	Section B						
11	Differentiate between ALTER and UPDATE commands in SQL						
	Differentiate l	hetwee	Or n char(n) varchar(n) d	atatypes in SO	I		
12	Write SQL sta	tement	for the following		-	2	
	a) To display	all the c	latabases				
	b) To create a	databa	ase OFFICE				
13	Categorise the	follow	ing commands as DD	L or DML		2	
	ALTER, DELET	E, DROF	P, UPDATE				
14	Explain Foreign key in RDBMS. Give suitable example to support your answer.						
15	Section C						
12	a) consider the following tables Teacher and Dept.						
	+++						
	Tno N	ame	Dob	Salary	Deptno		
	101 A	mal	1980-03-18	50000	10		
	102 s	uma	1978-04-10	38000	20		
	103 0	iya	1988-01-12	48000	10		
	++		+	+	++		
	Table: Dept	-+	+				
	deptno	İd	name				
	30	-+ т	+ т				
	20	М.	aths				
	10	S	cience				
	+	-+	+				
	Mhat will be t	ha outr	ut of the following st	atoment?			
	SELECT * FRO	M Teac	her NATURAL JOIN D	ept:			
				L - A			

1001 George K 2013-09-02 1991-09-01 MALE D01 1002 Ryma Sen 2012-12-11 1990-12-15 FEMALE D03 1003 Mohitesh 2013-02-03 1987-09-04 MALE D05 1007 Anil Jha 2014-01-17 1984-10-19 MALE D04 1004 Manila Sahai 2012-12-09 1986-11-14 FEMALE D01 1005 R SAHAY 2013-11-18 1987-03-31 MALE D02 1006 Jaya Priya 2014-06-09 1985-06-23 FEMALE D05 (i) SELECT COUNT(*), DCODE FROM WORKER GROUP BY DCODE HAV COUNT(*)>1; (ii) SELECT DISTINCT DCODE FROM WORKER; MALE' ORDER I (iii) SELECT NAME FROM WORKER WHERE GENDER='MALE' ORDER I NAME; (iv) SELECT MAX(DOJ), MIN(DOB) FROM WORKER; Write the outputs for SQL queries (i) to (iv) based on the following tables. TABLE : ACCOUNT ANO ANAME ADDRESS 101 Nirja Singh Bangalore 102 Rohan Gupta Chennai 103 Ali Reza						
1002 Ryma Sen 2012-12-11 1990-12-15 FEMALE D03 1003 Mohitesh 2013-02-03 1987-09-04 MALE D05 1007 Anil Jha 2014-01-17 1984-10-19 MALE D04 1004 Manila Sahai 2012-12-09 1986-11-14 FEMALE D01 1005 R SAHAY 2013-11-18 1987-03-31 MALE D02 1006 Jaya Priya 2014-06-09 1985-06-23 FEMALE D05 (i) SELECT COUNT(*), DCODE FROM WORKER GROUP BY DCODE HAV COUNT(*)>1; (ii) SELECT DISTINCT DCODE FROM WORKER; UNO MALE' ORDER IN NAME; (iii) SELECT NAME FROM WORKER WHERE GENDER='MALE' ORDER IN NAME; (iv) SELECT MAX(DOJ), MIN(DOB) FROM WORKER; Vorte the outputs for SQL queries (i) to (iv) based on the following tables. TABLE : ACCOUNT ANO ANAME ADDRESS 101 Nirja Singh Bangalore 102 Rohan Gupta Chennai 103 Ali Reza Hyderabad 104 Rishabh Jain Chennai						
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1007Anil Jha2014-01-171984-10-19MALED041004Manila Sahai2012-12-091986-11-14FEMALED011005R SAHAY2013-11-181987-03-31MALED021006Jaya Priya2014-06-091985-06-23FEMALED05(i) SELECT COUNT(*), DCODE FROM WORKER GROUP BY DCODE HAV COUNT(*)>1; (ii) SELECT DISTINCT DCODE FROM WORKER; (iii) SELECT NAME FROM WORKER WHERE GENDER='MALE' ORDER I NAME; (iv) SELECT MAX(DOJ), MIN(DOB) FROM WORKER;Value of the following tables. TABLE : ACCOUNTTABLE : ACCOUNTANOANAMEADDRESS101Nirja SinghBangalore102Rohan GuptaChennai103Ali RezaHyderabad104Rishabh JainChennai						
1004Manila Sahai2012-12-091986-11-14FEMALED011005R SAHAY2013-11-181987-03-31MALED021006Jaya Priya2014-06-091985-06-23FEMALED05(i) SELECT COUNT(*), DCODE FROM WORKER GROUP BY DCODE HAN COUNT(*)>1; (ii) SELECT DISTINCT DCODE FROM WORKER; (iii) SELECT DISTINCT DCODE FROM WORKER; (iii) SELECT NAME FROM WORKER WHERE GENDER='MALE' ORDER INAME; (iv) SELECT MAX(DOJ), MIN(DOB) FROM WORKER;Write the outputs for SQL queries (i) to (iv) based on the following tables. TABLE : ACCOUNTTABLE : ACCOUNTANOANAMEADDRESS101Nirja SinghBangalore102Rohan GuptaChennai103Ali RezaHyderabad104Rishabh JainChennai						
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ANOANAMEADDRESS101Nirja SinghBangalore102Rohan GuptaChennai103Ali RezaHyderabad104Rishabh JainChennai						
101Nirja SinghBangalore102Rohan GuptaChennai103Ali RezaHyderabad104Rishabh JainChennai						
102Rohan GuptaChennai103Ali RezaHyderabad104Rishabh JainChennai						
103Ali RezaHyderabad104Rishabh JainChennai						
104 Rishabh Jain Chennai						
105 Simran Kaur Chandigarh						
TABLE : TRANSACT						
TRNO ANO AMOUNT TYPE DOT						
T001 101 2500 Withdraw 2017-12-21						
T002 103 3000 Deposit 2017-06-01						
T003 102 2000 Withdraw 2017-05-12						
T004 103 1000 Deposit 2017-10-22						

17	A Book store data. As a da following deta	is consideri tabase adm ails.	ng to maintain t ninister, Rahul ha	heir invento as decided to	ry using SQL to store the create a table with the	3	
	a)Write SQL q Name of Name of The att Code – Bname Cust_co Price – Type –	uery for the of database of table – BO ribute of BO alphanume e – characte ode – float numeric character o	e table creation: – BOOKSTORE DOK DOK are as follov eric of size 10 pri r of size 30 of size 25	vs: mary key			
	(b) Now Rahul wants to display the structure of the table BOOK, i.e, name of the attributes and their respective data types that he has used in the table. Write the query to display the same.						
	(c) Rahul wants to remove the table BOOK. Which command will he use from						
	the following:						
	(a) DROP TABLE BOOK; (b) DELETE FROM BOOK; (c) DROP DATABASE BOOK STORF: (d) DELETE FROM BOOK:						
	(0) 21101			,			
			Section	n D		8	
18	Consider the statements (i)	following ta to (iv)	ables Product an	d Client. Wri	teSQL commands for the	4	
	P ID	Ia	ble: PRODUCI				
		Product	Manufacturer	Price	7		
		Product Name	Manufacturer	Price			
	TP01	ProductNameTalcomPowder	Manufacturer LAK	Price 40			
	TP01 FW05	Product Name Talcom Powder Face Wash	Manufacturer LAK ABC	Price 40 45			
	TP01 FW05 BS01	Product Name Talcom Powder Face Wash Bath	Manufacturer LAK ABC ABC	Price 40 45 55			
	TP01 FW05 BS01 SH06	Product Name Talcom Powder Face Wash Bath Soap Shampoo	Manufacturer LAK ABC ABC XYZ	Price 40 45 55 120			
	TP01 FW05 BS01 SH06 FW12	Product Name Talcom Powder Face Wash Bath Soap Shampoo Face	ManufacturerLAKABCABCXYZXYZ	Price 40 45 55 120 95			
	TP01 FW05 BS01 SH06 FW12	Product Name Talcom Powder Face Wash Bath Soap Shampoo Face Wash	Manufacturer LAK ABC ABC XYZ XYZ De: CLIENT	Price 40 45 55 120 95			
	TP01 FW05 BS01 SH06 FW12 C_ID	Product Name Talcom Powder Face Wash Soap Shampoo Face Wash Tab Client	Manufacturer LAK ABC ABC ABC XYZ XYZ Dele: CLIENT City	Price 40 45 55 120 95 P_ID			
	TP01 FW05 BS01 SH06 FW12 C_ID	Product Name Talcom Powder Face Wash Bath Soap Shampoo Face Wash Tab Client Name	Manufacturer LAK ABC ABC XYZ XYZ Dele: CLIENT City Delhi	Price 40 45 55 120 95 P_ID FW05			
	TP01 FW05 BS01 SH06 FW12 C_ID 01	Product Name Talcom Powder Face Wash Bath Soap Shampoo Face Wash Tal Client Name Cosmetic Shop	Manufacturer LAK ABC ABC ABC XYZ XYZ Dele: CLIENT City Delhi	Price 40 45 55 120 95 P_ID FW05			
	TP01 FW05 BS01 SH06 FW12 C_ID 01 06	Product Name Talcom Powder Face Wash Bath Soap Shampoo Face Wash Tak Client Name Cosmetic Shop Total Health	ManufacturerLAKABCABCABCXYZXYZOle: CLIENTCityDelhiMumbai	Price 40 45 55 120 95 P_ID FW05 BS01			
	TP01 FW05 BS01 SH06 FW12 C_ID 01 06 12	Product Name Talcom Powder Face Wash Bath Soap Shampoo Face Wash Client Name Cosmetic Shop Total Health Live Life	Manufacturer LAK ABC ABC ABC XYZ XYZ Dele: CLIENT City Delhi Mumbai Delhi	Price 40 45 55 120 95 P_ID FW05 BS01 SH06			
	TP01 FW05 BS01 SH06 FW12 C_ID 01 06 12 15	Product Name Talcom Powder Face Wash Bath Soap Shampoo Face Wash Client Name Cosmetic Shop Total Health Live Life Pretty Womap	Manufacturer LAK ABC ABC ABC XYZ XYZ Dele: CLIENT City Delhi Delhi Delhi Delhi	Price 40 45 55 120 95 P_ID FW05 BS01 SH06 FW12			
	TP01 FW05 BS01 SH06 FW12 C_ID 01 06 12 15 16	Product Name Talcom Powder Face Wash Bath Soap Shampoo Face Wash Tak Client Name Cosmetic Shop Total Health Live Life Pretty Woman Dreams	ManufacturerLAKABCABCABCXYZXYZDele: CLIENTCityDelhiDelhiDelhiDelhiDelhiDelhiDelhi	Price 40 45 55 120 95 P_ID FW05 BS01 SH06 FW12 TP01			

(i) To display the details of those Clients whose city is Delhi.
(ii) To display the details of Products whose Price is in therange of 50 to 100 (Bothvalues included).
(iii) To display the ClientName, City from table Client, andProductName and

Price from table Product, with theircorresponding matching P ID.Product, Client where Product.P ID=Client.P ID.

(iv) To increase the Price of all Products by 10

18Aarav creates a table STOCK with a set of records to maintain the stock details1+1+of different products.2

Id	Product	Qty	Price	Transaction Date
101	Plastic Folder 12"	100	3400	2014-12-14
104	Pen Stand Standard	200	4500	2015-01-31
105	Stapler Medium	250	1200	2015-02-28
109	Punching Machine Big	200	1400	2015-03-12
103	Stapler Mini	100	1500	2015-02-02

Based on the data given above answer the following questions:

- i) Identify the most appropriate column, which can be considered as Primary key.
- ii) If one column is added and two rows are deleted from the table STOCK, what will be the new degree and cardinality of the above table?

iii) Write the statements to:

a. Insert the following record into the table STOCK

Id - 102, Product- Pencil, Qty- 300, Price-1500, Transaction Date-

2014-12-23.

b. Increase the price by 2% whose Id is >=105

OR (Option for part iii only)

iii) Write the statements to:

- a. Delete the records of productswhose Transaction date is less than 2015-01-01
- b. Add a column Description in the table with datatype as varchar with 50 characters