Class: XII   **Subject: Computer Scienc**

Max. marks: 40M   **Time: 1.5 hours**

1.	Which of the following commands is used to delete a table: 1. DELETE 2.ALTER 3.REMOVE 4.DROP	1M
2.	Which function is used to return a section of string? 1. instr() 2.mid() 3.substr() 4.substring()	1M
3.	A table named "Student" contains name, roll number, subject and address of 80 students. Mention the degree and cardinality of the table respectively: 1. 20,3 2. 4,80 3. 80,4 4. 3,60	1M
4.	Which command can be use with SELECT to display only NULL values in a column. 1. AS NULL 2-LIKE NULL 3- IS 'NULL' 4-IS NULL	1M

5.	What will be returned by the given query?
	SELECT ROUND (153.669,-2);
	    1. 153.67
	    2. 0
	    3. 200
	    4. 100
		1M

6.	Help Ritesh to write the command to display the name of the oldest student?
	    1. select name,min(DOB) from student ;
	    2. select name,max(DOB) from student ;
	    3. select name,min(DOB) from student group by name ;
	    4. select name,max(DOB) from student group by name;
		1M

7.	Which keyword can be used to assign meaningful column name to the results of SELECT queries using the SQL built-in functions? 1. ALIAS 2-REN 3-RENAME 4-AS	1M
8.	The attributes in a relation are called Tuple. State whether this statement is True or False.	1M
	Assertion and Reason Based questions A) Both A and R are true and R is the correct explanation for A B) Both A and R are true and R is not the correct explanation for A C) A is True but R is False D) A is false but R is True	
9.	Assertion: - In SQL we cannot find name of week day using a date field. Reason: - Year () function returns the year from the date passed.	1M
10.	Assertion: The Output of the COUNT Function will not be a single row table unless it is written along with GROUP BY Clause. Reason: The COUNT Function counts the total number of rows satisfying a condition and returns the numeric value.	1M
	Short/Long Answer Questions	

11.	Gokul is using a table Employee. It has the following columns: Code, Name, Salary, Dept_code He wants to display average salary department wise. He wrote the following command: **SELECT Dept_code, MAX(Salary) FROM Employee;** But he did not get the desired result. Rewrite the above query with necessary changes to help him get the desired output and explain why above query does not work?	2M
12.	Write a sql query for the following: Create a database named Employee. Delete the database Employee.	2M
13.	Explain the difference between output of the below queries: Select count(*) from table_name; Select count(column_name) from table_name; Furthermore, differentiate between HAVING and WHERE clauses.	2M
14.	A company XYZ needs to create a table "STAFF" with Name, EmployeeID, DateOfJoining, Salary and City as attributes. Write a SQL query to create the said table with proper PRIMARY KEY.	2M
15.	Amar is executing date functions on MySQL but he is confused between sysdate() and now() functions, so help him to clear his confusion with example	2M
16.	Mr Rohan is working on a MySQL table 'Sports' having following records:	3M

Table: - Sports

Rno	Class	Name	Game	City
10	7	Sammer	Cricket	Shimla
11	8	Sujit	Tennis	Goa
12	7	Kamal	Swimming	Mumbai
13	7	Venna	Tennis	Chandigarh

Mr Rohan wants to perform following task on the table, write queries to help him:
i.To fetch the Name of players in upper case and Game in lowercase.
ii.To display the last 3 characters of the player's name in lower case.
iii.To display the position where the character 'a' was first found in each player's Name.

17.	Write suitable SQL query for the following: 　i.　Display 3 characters extracted from 5th left character onwards from the string 'VANDE BHARAT'. 　ii.　Display the position of occurrence of string 'RAJ' in the string 'NEERAJ CHOPRA'. 　iii.　Display the value of 2^5	3M
18.	Carefully observe the following table named 'class':	4M

Table: class

Sid	Name	Category	Class	Marks
1	Ajay	GEN	6	450
2	Radha	ST	10	350
3	Mahesh	SC	11	260
4	Manvi	OBC	9	300
5	Ajay	OBC	10	410
6	Pooja	GEN	8	170

Write SQL queries for the following:
(a)To display the records in increasing order of Marks.
(b)To display category and category wise total number of Student.
(c)To display all records where either the first or the second character of Name is "a".
(d)To display data of all students that have scored marks in range of 100 and 300.

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19. Consider the following WORKERS and DEPARTMENTS tables.
Write SQL queries for (i) to (v)

WORKERS

WNO	NAME	DOJ	DOB	GENDER	DCODE
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 Sahani	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

DEPTARTMENTS

DCode	DptName
D01	IT
D02	HR
D03	TT
D04	TA
D05	Training

(i)To display NAME, DOB and DOJ from the table WORKER in ascending order of DOJ, who are born on Sundays.
(ii)To display the NAME of all the MALE workers from the table WORKER.
(iii)To display the count of male and female employees.
(iv)To display the Name of all worker and name of their department where they work if they have joined after 2013.
(v) To display Name of oldest worker in each department with his age.

5M

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20. Answer below questions based on the table CARMARKET.

Table: CARMARKET

CARCODE	CARNAME	COMPANY	COLOR	COST	DOM
C01	BALENO	SUZUKI	BLUE	5.90	2019-11-07
CO2	INDIGO	TATA	SILVER	12.90	2020-10-15

5M

C03	GLC	MERCEDES	WHITE	62.38	2020-01-20
C04	A6	AUDI	RED	58.55	2018-12-29
C05	INNOVA	TOYOTA	BLACK	32.82	2017-11-10
C06	WAGONOR	SUZUKI	WHITE	12.11	2016-11-11
C07	BREZZA	SUZUKI	GOLD	9.80	2016-10-03

1)SELECT COUNT(*),YEAR(DOM) FROM CARMARKET HAVING COUNT(*)>1 GROUP BY YEAR(DOM);
2)SELECT COMPANY, SUM(COST),COUNT(*) FROM CARMARKET GROUP BY COMPANY;
3) SELECT COLOR,COUNT(CARNAME) FROM CARMARKET GROUP BY COLOR HAVING COUNT(COLOR)> 1;
4)SELECT * FROM CARMARKET WHERE CARNAME LIKE "_A%";
5)SELECT CARCODE,DOM FROM CARMARKET WHERE CARCODE IN ("C02","CO1","C04","C06") ORDER BY COST;