BCM School Basant Avenue Dugri
Class: XII
Informatics Practices (065)

1	You have a table called "sales" that contains sales data for a retail store. Which SQL aggregate function can be used to calculate the total number of rows or records in the "sales" table? a. MAX() b. MIN() c. AVG() d. COUNT()

2	Which of the following SQL queries is used to retrieve rows from the "customers" table where the "email" column contains NULL values?
	a. SELECT * FROM customers WHERE email = NULL;
	b. SELECT * FROM customers WHERE email IS NOT NULL;
	c. SELECT * FROM customers WHERE ISNULL(email);
	d. SELECT * FROM customers WHERE email IS NULL;

3	You have a table called "employees" with columns "department" and "salary." You want to find the highest salary in each department and display the results in descending order of salary. Which SQL clauses should you use for this query? a. GROUP BY, HAVING, ORDER BY b. GROUP BY, ORDER BY c. HAVING, ORDER BY d. HAVING, GROUP BY
4	Which SQL function can be used to convert a text string to uppercase? a. UCASE() b. LENGTH() c. MID() d. LTRIM()
5	You are working with a database that stores employee information. You need to retrieve the current date and time. Which SQL function would you use for this purpose? a. DATE() b. MONTH() c. DAY() d. NOW()
6	Predict the output of the following query: SELECT ROUND(15.789, 2); a. 15.79 b. 15.789 c. 16 d. 15.8

7	Consider the following records in 'Cars' table and answer the given questions:  a. Write SQL query that will give the output as: Blu Bla Bro Blu b. Write command for the following: To change the color of Model with code as 103 to 'Green'. c. How many tuples are present in the cars table? Also identify the most suitable column of the cars table to mark as primary key column. **OR** a. SELECT Make, Model FROM Cars WHERE Price > 30000.00; b. SELECT COUNT(*) AS 'TotalCars' FROM Cars WHERE Year = 2022; c. SELECT CarID, Make, Model FROM Cars where price<22000;
8	Consider the given DataFrame 'Employees': Name Employee_ID Department Alice EMP001 HR Bob EMP002 Sales Carol EMP003 IT David EMP004 Marketing Write suitable Python statements for the following operations: i) Add a column called 'Salary' with the following data: [55000, 60000, 65000, 58000]. ii) Include a new employee named 'Eve' with Employee_ID 'EMP005', working in the 'Finance' department, and a salary of 62000. Change the name of the 'Employee_ID' column to 'ID'.
9	Attempt the following questions: (i) Write a SQL query to calculate the remainder when 15 is divided by 4. (ii) Write a SQL query to retrieve the current year. (iii) Write a SQL query to extract the first three characters from the string 'Hello, World!'. (iv) Write a SQL query to convert the text in the 'description' column of the 'product' table to uppercase. (v) Write a SQL query to display the position of '-' in values of ACC_NO column of table Bank.