GURU TEG BAHADUR ACADEMY

CLASS XII
SUBJECT: INFORMATICS PRACTICES
SUMMER VACATION ASSIGNMENT

CHAPTER: MYSQL

A. Choose the correct option:

1. What is the purpose of the MySQL software?
a) To manage relational databases b) To create web applications
c) To design graphics d) To edit videos

2. Which SQL statement is used to create a new database?
a) CREATE TABLE b) CREATE DATABASE
c) ALTER TABLE d) DROP TABLE

3. What is the purpose of the PRIMARY KEY constraint in MySQL?
a) To define a foreign key b) To define a unique identifier for a table
c) To define a check constraint d) To define a default value

4. Which SQL statement is used to retrieve data from a database?
a) INSERT INTO b) UPDATE c) DELETE d) SELECT

5. What is the purpose of the FOREIGN KEY constraint in MySQL?
a) To define a unique identifier for a table b) To define a relationship between two tables
c) To define a check constraint d) To define a default value

6. Which SQL statement is used to modify the structure of an existing table?
a) ALTER TABLE b) CREATE TABLE c) DROP TABLE d) TRUNCATE TABLE

7. What is the purpose of the WHERE clause in MySQL?
a) To filter records based on conditions b) To sort records in ascending order
c) To group records based on a field d) To join two tables

8. Which SQL statement is used to delete data from a table?
a) DELETE b) UPDATE c) INSERT INTO d) SELECT

9. What is the purpose of the INDEX in MySQL?
a) To define a unique identifier for a table b) To improve query performance
c) To define a foreign key d) To define a check constraint

10. Which SQL statement is used to create a copy of an existing table?
a) CREATE TABLE AS b) CREATE TABLE LIKE
c) ALTER TABLE d) DROP TABLE

B. Short Question Answers:

1. What is the difference between the WHERE and HAVING clauses in MySQL?
2. How do you create a relationship between two tables in MySQL?
3. What is the purpose of the ORDER BY clause in MySQL?

4. How do you retrieve data from multiple tables in MySQL?
5. What is the purpose of the LIMIT clause in MySQL?

C. Programming:

1. Create a new database called "school" and create a table called "students" with fields for name, roll number, and grade.
    a. Insert five records into the "students" table.
    b. Retrieve the names and grades of all students in the "students" table.
    c. Update the grade of a student with roll number 1 to "A".
    d. Delete the record of a student with roll number 3.
    e. Create a new table called "teachers" with fields for name, subject, and salary.
    f. Insert three records into the "teachers" table.
    g. Retrieve the names and subjects of all teachers in the "teachers" table.
    h. Create a relationship between the "students" and "teachers" tables based on the subject field.
    i. Retrieve the names of all students and their corresponding teachers based on the subject field.