



DATABASE PROGRAMMING

Instructions

- Complete all tasks below.
- **TOPIC:** WORKING WITH MYSQL TOOLS

QUESTION

1. Using MySQL Workbench

- Explain how to create a new database using MySQL Workbench and outline the steps involved.

2. Executing SQL Queries

- Write a step-by-step guide on how to execute multiple SQL queries in MySQL Workbench. Include how to view results.

3. Data Import and Export

- Describe how to import a CSV file into a MySQL table using MySQL Workbench, including any necessary configurations.

4. Backup and Restore

- Write down the steps to create a backup of a MySQL database using MySQL Workbench, and explain how to restore it from that backup.

5. Using Command-Line Tools

- Write a command to access MySQL from the command line and connect to a database named `shop_db`.

6. Executing Queries via Command Line

- Provide an example of how to execute an SQL script file using the MySQL command-line tool.

7. MySQL User Management via Command Line

- Write commands to create a new user and grant them privileges on a specific database using the MySQL command line.

8. Monitoring with MySQL Performance Schema

- Explain how to enable and use the Performance Schema in MySQL to monitor query performance. Provide an example query.

9. Using MySQL Utilities

- Describe the purpose of the `mysqldump` utility and provide a command example to back up a specific database.

10. Analyzing Query Performance

- Outline how to use the MySQL query profiler to analyze the performance of a specific query.

11. Using Third-Party Tools

- Discuss a popular third-party MySQL management tool (e.g., phpMyAdmin, DBeaver) and explain its key features.

12. Optimizing Database with MySQL Tuner

- Explain what MySQL Tuner is and provide steps to use it for database optimization.

13. Using Triggers with MySQL Workbench

- Write a step-by-step guide on creating a trigger using MySQL Workbench.

14. Creating Views with SQL Tools

- Describe how to create a view in MySQL using either MySQL Workbench or the command line, and provide an example.

15. Task Automation with MySQL Scheduled Events

- Explain how to create and manage scheduled events in MySQL. Provide an example to create an event that triggers daily.

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