

IBM – Advanced Diploma on IT, Networking and Cloud Computing
CORE MODULE – 03 (PRACTICAL)

1. Write the SQL statement to create a database named my_database and PHP code to connect to this database using MySQLi.
2. Write PHP code to connect to a MySQL database and display all user names from the users table.
3. Outline the steps to create a new Laravel project and configure the .env file to connect to a local MySQL database named laravel_db.
4. Write a PHP script to insert a new record into a MySQL table called products with fields name and price.
5. Create a migration in Laravel to create a posts table with fields id, title, and content?
6. Write a simple PHP script to update the email of a user in the users table in MySQL based on their user ID.
7. Write the Laravel route code to display the welcome view when the user visits the root URL (/).
8. Write a SQL query to select all records from a customers table where the age is greater than 30.
9. Write the Eloquent query to fetch all products with a price below 500.
10. How can you create a form in a Laravel Blade template to add a new user with name and email fields? Task: Write the Blade template code to create a form that allows users to enter their name and email.
11. Write PHP code to delete a record from the orders table in MySQL based on the order_id.
12. Write the Artisan command to generate a model and migration for the Category.
13. Write a PHP function named countEmployees() that connects to a MySQL database and returns the count of records in the employees table.
14. Write the Laravel controller code to handle storing a new user when a form is submitted.
15. Write a SQL query to create a table named orders with fields order_id, product_id, quantity, and order_date.
16. Write the Laravel validation rules to ensure that the email field is unique and required.
17. Write PHP code to fetch all records from a products table and display them in an HTML table format.
18. How can you use Laravel's built-in authentication to restrict access to a specific route? Task: Describe the steps to add authentication to a Laravel route.
19. Write a PHP script to fetch a record from the users table by user ID and display the user's name. Task: Write PHP code to fetch the user with ID 2 and display their name.
20. Write the Laravel Seeder code to add 10 fake users to the users table using Faker.

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