



DATABASE PROGRAMMING

Instructions

- Complete all tasks below.
- **TOPIC:** BASIC SQL COMMANDS

QUESTION

1. SELECT Statement

- Write a query to select all columns from a table named `products`.

2. WHERE Clause

- Write a query to retrieve all orders from the `orders` table where the `order_status` is "shipped".

3. DISTINCT Keyword

- Write a query to find all unique product categories from the `products` table.

4. ORDER BY Clause

- Write a query to list all employees from the `employees` table and sort them by `last_name` in ascending order.

5. LIMIT Clause

- Write a query to retrieve the top 10 highest-paid employees from the `employees` table.

6. COUNT Function

- Write a query to count the total number of customers in the `customers` table.

7. SUM Function

- Write a query to calculate the total sales from the `sales` table.

8. AVG Function

- Write a query to find the average price of products in the `products` table.

9. GROUP BY Clause

- Write a query to list the total number of orders placed by each customer from the `orders` table, grouped by `customer_id`.

10. HAVING Clause

- Write a query to find all product categories that have more than 5 products listed in the `products` table.

11. INSERT INTO Statement

- Write a query to insert a new record into the `employees` table with sample values for `first_name`, `last_name`, and `email`.

12. UPDATE Statement

- Write a query to change the `email` address of a customer with `customer_id = 3`.

13. DELETE Statement

- Write a query to remove all records from the `orders` table where `order_date` is older than January 1, 2023.

14. JOIN Clause

- Write a query to list all orders along with the corresponding customer names from the `orders` and `customers` tables.

15. INNER JOIN Example

- Write a query to retrieve a list of all students and the courses they are enrolled in by joining the `students` and `enrollments` tables.

END