



COURSE 2 - MYSQL DATABASE

(Unit - 15 & 16 : Procedures & Functions)

Instructions:

- Make sure to follow the standards and naming conventions while creating tables, columns, etc.
- Please create a database schema before starting SQL operations if the schema doesn't exist.
- Ensure you set the database scheme you want to work with before starting SQL operations.
- Make sure to include audit columns with default values when creating tables so the system will use them if the user provides no value.
- Be sure to include the necessary columns when creating tables to maintain the history of the event or transaction.

Practice Questions

Procedures :

1. Create a procedure named `GetCustomerDetailsByID` that takes a customer ID as input and retrieves all details of that customer.
2. Create a procedure named `CalculateTotalSalesAmount` that takes a product code as input and calculates the total sales amount for that product.



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3. Create a procedure named ``UpdateProductPriceByPercentage`` that takes a product code and a percentage increase as input and updates the unit price of that product accordingly.
4. Create a procedure named ``GetSalesHistoryForCustomer`` that takes a customer ID as input and retrieves the sales history (product code, quantity, date) for that customer.
5. Create a procedure named ``DeleteExpiredPromotions`` that deletes all promotions that have expired.
6. Create a procedure named ``CalculateAverageSalesQuantity`` that takes a product code as input and calculates the average sales quantity for that product.
7. Create a procedure named ``GetLocationDetailsByCode`` that takes a location code as input and retrieves the details of that location.
8. Create a procedure named ``CalculateTotalRevenueForGroup`` that takes a group code as input and calculates the total revenue generated by all products in that group.
9. Create a procedure named ``GetProductDetailsByGroupCode`` that takes a group code as input and retrieves details of all products in that group.
10. Create a procedure named ``DeleteInactiveCustomers`` that deletes all customers who haven't made any purchases in the last year.

Functions:



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1. CalculateTotalSalesAmount` that calculates the total sales amount for a given customer ID.
2. Write a function named `CapitalizeCustomerName` that capitalizes the first letter of each word in a customer's name.
3. Define a function named `CalculateDiscountedPrice` that calculates the discounted price for a product based on a given discount percentage.
4. Create a function named `GetLatestSalesDate` that retrieves the latest sales date for a given product.
5. Define a function named `CalculateCustomerAge` that calculates the age of a customer based on their date of birth.
6. Write a function named `GetProductDetails` that retrieves the details of a product based on its product code.
7. Create a function named `CalculateAverageSales` that calculates the average sales quantity for a given product.
8. Define a function named `GetCustomerLocation` that retrieves the location of a customer based on their customer ID.
9. Write a function based `CalculateTotalRevenue` that calculates the total revenue generated from all sales transactions.
10. Create a function named `GetProductGroup` that retrieves the product group of a product based on its product code.