Stored Procedures (SQL Task)

Database HomePro

1. Create the Stored procedure to get list of all customers.
   Name: **HomePro.GetAllCustomers_<YourName>**.

   Execute and validate result:
   > **Exec HomePro.GetAllCustomers_<YourName>**

2. Create the procedure to get list of customers without schedules.
   Name: **HomePro.GetCustomersNoSchedule_<YourName>**
   List of columns: **CustomerId,FirstName,LastName,Email,Phone,ZipCode,Age**

   Execute and validate result:
   > **Exec HomePro.GetCustomersNoSchedule_<YourName>**

3. Create procedure to get list of customers who is older than given age.
   Name: **HomePro.GetCustomersByAge_<YourName>**
   Parameter: @Age int
   List of columns: **CustomerId,FirstName,LastName,Email,Phone,ZipCode, Age**

   Execute SP with 3 different Age values and validate result:
   a. **EXEC HomePro.GetCustomersByAge_<Name> @Age = 0**
   b. **EXEC HomePro.GetCustomersByAge_<Name> @Age = 20**
   c. **EXEC HomePro.GetCustomersByAge_<Name> @Age = 200**

4. Create procedure to get list of customers that have schedules after the given date:
   Name: **HomePro.GetSchedulesByDate_<YourName>**
   Parameter: @DateNedeed date
   List of columns: **CustomerId,FirstName,LastName,Email,Phone,ZipCode,Age**

   Call the SP with 3 different parameters on order the test data validation and compare the result
   - **@DateNedeed = '2000-12-31'**
   - **@DateNedeed = '2012-10-21'**
   - **@DateNedeed = '2015-10-01'**

5. Add validation to stored procedure **HomePro.GetCustomersByAge_<YourName>** that parameter @Age contains Proper value. Call the SP with 3 different parameters:
   a. EXEC HomePro.GetCustomersByAge_<Name> @Age = 0
   b. EXEC HomePro.GetCustomersByAge_<Name> @Age = 20
   c. EXEC HomePro.GetCustomersByAge_<Name> @Age = 200

6. Add validation to procedure **HomePro.GetSchedulesByDate_<YourName>**
   The procedure must verify that parameter is in allowed range. Say between '2010-01-01' and '2020-01-10'.

Call the SP with 3 different parameters on order the test data validation and compare the result

- @DateNedeed = '2000-12-31'
- @DateNedeed = '2012-10-21'
- @DateNedeed = '2015-10-01'

Database Bank

1. Create and test the procedure to get list of all clients.
   Name: **Bank.GetAllClients_<YourName>**
   List of columns: **ClientId,FirstName,LastName,Phone,Email,State,Age,Type**

   Execute and validate result:
   > **Exec Bank.GetAllClients_<YourName>**

2. Create and test procedure to get list of customers without Account.
   Name: **Bank.GetClientsNoAccount_<YourName>**
   List of columns: **ClientId,FirstName,LastName,Phone,Email,State,Age,Type**

3. Create the procedure to get list of customers who is in given range of age.
   Name: **Bank.GetClientsByAge_<YourName>**
   Parameters: @AgeBegin int, @AgeEnd int

   Call the SP with 3 different parameters:
   a. EXEC HomePro.GetCustomersByAge_<Name> @AgeBegin = 0, @AgeEnd = 50
   b. EXEC HomePro.GetCustomersByAge_<Name> @AgeBegin = 20, @AgeEnd = 50
   c. EXEC HomePro.GetCustomersByAge_<Name> @AgeBegin = 50, @AgeEnd = 40

4. Add parameter verification to the procedure. **Bank.GetClientsByAge_<YourName>.**
   The parameters @AgeBegin and @AgeEnd must be in the allowed range, which is between 18 and 100 and that @AgeBegin > @AgeEnd

   Call the SP with 3 different parameters:
   a. EXEC HomePro.GetCustomersByAge_<Name> @AgeBegin = 0, @AgeEnd = 50
   b. EXEC HomePro.GetCustomersByAge_<Name> @AgeBegin = 20, @AgeEnd = 50
   c. EXEC HomePro.GetCustomersByAge_<Name> @AgeBegin = 50, @AgeEnd = 40

5. Create procedure to get list of clients with given account type:
   Name: **Bank.GetClientsWithAccount_<YourName>**
   Parameter: @AccountType CHAR(10)

   Account Type must be one of: "CHECKING", "CREDIT", "SAVING".
   The procedure must verify the parameter value.
   List of columns: **ClientId,FirstName,LastName,Phone,Email,State,Age,Type**