## 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>**

1. 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>**

1. 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:

* 1. **EXEC HomePro.GetCustomersByAge\_<Name> @Age = 0**
  2. **EXEC HomePro.GetCustomersByAge\_<Name> @Age = 20**
  3. **EXEC HomePro.GetCustomersByAge\_<Name> @Age = 200**

1. 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’**

1. Add validation to stored procedure **HomePro.GetCustomersByAge\_<YourName>** that parameter @Age contains Proper value. Call the SP with 3 different parameters:
   1. EXEC HomePro.GetCustomersByAge\_<Name> @Age = 0
   2. EXEC HomePro.GetCustomersByAge\_<Name> @Age = 20
   3. EXEC HomePro.GetCustomersByAge\_<Name> @Age = 200
2. 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>**

1. 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**

1. 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:

* 1. EXEC HomePro.GetCustomersByAge\_<Name> @AgeBegin = 0, @AgeEnd = 50
  2. EXEC HomePro.GetCustomersByAge\_<Name> @AgeBegin = 20, @AgeEnd = 50
  3. EXEC HomePro.GetCustomersByAge\_<Name> @AgeBegin = 50, @AgeEnd = 40

1. 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:

1. EXEC HomePro.GetCustomersByAge\_<Name> @AgeBegin = 0, @AgeEnd = 50
2. EXEC HomePro.GetCustomersByAge\_<Name> @AgeBegin = 20, @AgeEnd = 50
3. EXEC HomePro.GetCustomersByAge\_<Name> @AgeBegin = 50, @AgeEnd = 40
4. 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**