

SQL Database and UiPath

1) Adding row to an existing Table into Database

- 1) Install Package (**UiPath.Database.Activities**) from manage package into UiPath.
- 2) Database activities available in UiPath
 - Connect**
 - Disconnect**
 - Execute Non-Query**-Used for write,update, delete, replace data into database.
 - Execute Query**-Used to get/fetch specific data from database.
 - Insert**-Used for inserting Table into database.
 - Start Transaction**
- 3) Use Connect activity to connect UiPath with Database and save Connection String into an output variable which can be used later for executing different queries.
- 4) To add whole row to existing table, write the following query:
"INSERT INTO TableName VALUES (@Coulmn1 Value, @Column2 Value and so on)"
- 5) To add data to specific column in existing table, write the following query:
"INSERT INTO TableName(ColumnNme) VALUES (@Coulmn1 Value,@Column2Value and so on)"
- 6) Provide correct parameters into query activity.
- 7) Disconnect the database.

2) Dynamically Update Data into Database

- 1) Update is basically modifying the existing value in the database and inserting referred to putting a new data into database.
- 2) Find Unique column that will help to identify the row in which you want to modify/change the data.
- 3) Connect the database and use Execute non query activity.
- 4) Double check the parameters in Execute non query.
- 5) Update data by writing below query:
"UPDATE TableName SET ColumnNameToBeModified = @ValueTobeUpdate WHERE UniqueColumnName = @UniqueColumnValue"
- 6) Disconnect the database.

3) Get Table Data from Database and store into a Datatable in Uipath

- 1) Connect the database and use Execute Query activity.
- 2) To get complete table, write below query:
"SELECT* FROM TableName"
(* is used to select whole Table)
- 3) To get partial data from table, write below query:
"SELECT RequiredColumnName1, RequiredColumnName2 and so on FROM TableName"
- 4) Store the table into a Datatable variable.
- 5) Disconnect the database.

4) Add data from an Excel file to Database

- 1) Create a table of required columns as in Excel file into Database.
- 2) Read the excel file containing your data using Read Range Activity and store into a Datatable variable.
- 3) Connect the database
- 4) **Method 1- Adding row data one by one (Refer Point Number 1.)**
- 5) **Method 2-Adding whole Table at once-**
Use Insert activity into UiPath and provide the required input.
 - a) **Input 1- Datatable variable name as in UiPath.**
 - b) **Input 2- Table name as in Database.**
- 6) Disconnect the database.

5) Delete data from Database using UiPath

- 1) **Case 1: Delete a particular Row from Table**
 - a. Connect the database.
 - b. Use Execute Non-Query activity and write below query-
"DELETE FROM TableName WHERE ColumnName = RespectiveColumnValue"
 - c. Disconnect the database.
- 2) **Case 2: Delete all the Row from Table (Table will remain in database with empty Table content)**
 - a. Connect the database.
 - b. Use Execute Non-Query activity and write below query-
"DELETE FROM TableName"
 - c. Disconnect the database.

3) Case 3: Delete complete Table from Database (Table and table content will both deleted)

- a. Connect the database.
- b. Use Execute Non-Query activity and write below query-
"DROP TABLE TableName"
- c. Disconnect the database.