Databases

Introduction - Agenda

Ui Connecting to a Database

    Ui Connectors

Ui UiPath Database Activities

Ui SQL Statements

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    Ui Command Types

Best Practices
Q&A
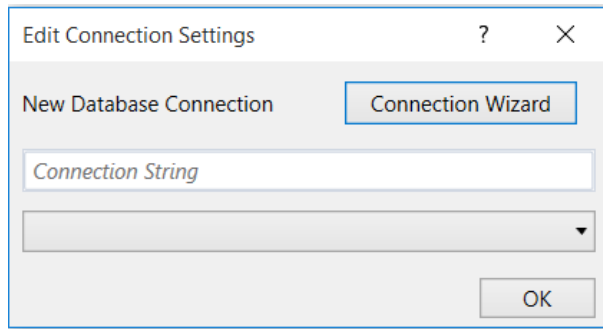*Test*
Online Resources

Connecting to a database

How does it work?

- Uses the built-in .NET Framework capabilities
- Compatible with several data sources and providers

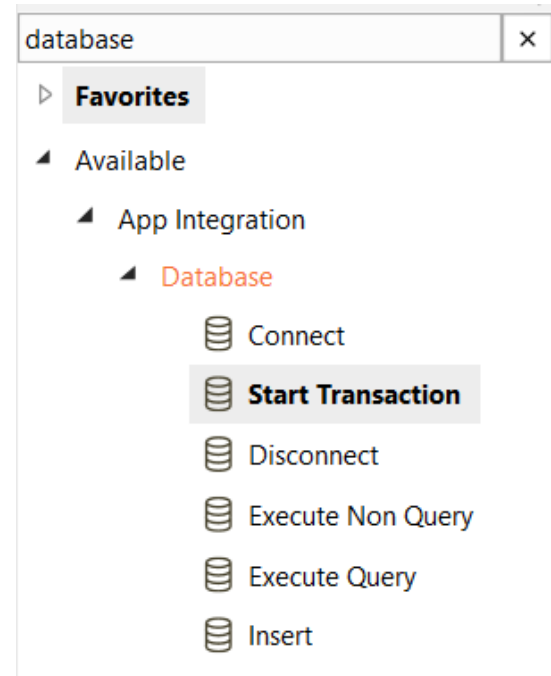## Ways to connect to a database:

- Connection String
- Connection Wizard

UiPath Database activities

Possible actions:

- Open and close connection

- Act inside a transaction

- Execute queries and non-queries

- Bulk insert using a DataTable

SQL statements

Statements

- Non-Query
  - Insert, delete, update
  - Other non-query statements

- Queries

- Bulk insert

Returned value

- Number of rows affected
- -1

- DataTable

- Number of rows affected

Command Types & Parameters

Statements are based on the .NET CommandType enumeration:

- Text
- Stored Procedures
- Table Direct – available only for OLE DB data provider

Each statement can be parametrized:

- Define the parameters collection
- In the query, use @ before the name of the parameters

SQL – create a new table

Use the following syntax

"CREATE TABLE <tableName>
(
<fieldName> <fieldType>,
<fieldName> <fieldType>,
<fieldName> <fieldType>

…
);"

Data types

Int
Varchar(255)

Exercise

1. Connect to Employee.accdb
2. Execute a query in FTE table and find out which employee has Id = 2. Send the id, in the query as a parameter.
3. HR department provided a file with some new guys in the company. Load the data from NewFTE.xlsx in the FTE table.
4. Find out how many employees were added.
5. Display all the data from FTE.
6. The company intend to organize an internship in the summer time. Create a new table in the database called Students.

UiPath

Q&A

UiPath

Test

Online Resources

Ui [Export Data From Database to CSV file](#)

Ui [How to query data from a SQL database](#)

Ui [Exercise available here](#)