Working with databases



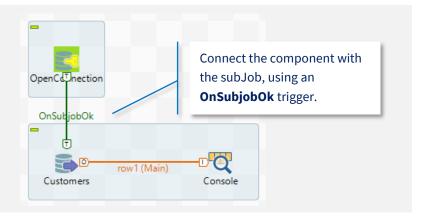
Overview

In this module, you learned how to perform basic operations on databases in Talend Studio, specifically, how to create a table, insert data, and query data.

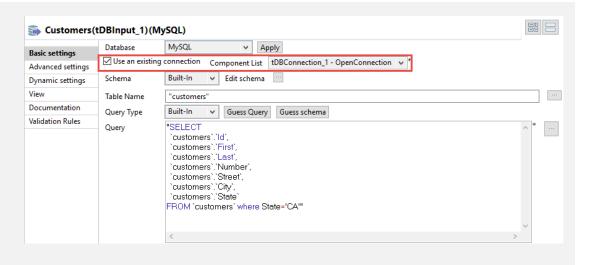
Key steps

Databases have a limited number of simultaneous connections. In a Job, a database connection can be shared between components. The connection must be closed when the Job ends.

- Open the connection using a **tDBConnection** component.
 - Place the component in the **Designer**.
 - Select a DB type.
 - Configure the database credentials.



- When configuring a database component, you can easily reuse the connection.
 - Select the Use an existing connection check box.
 - On the drop-down **Component List**, select the connection you created earlier.



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To follow best practices when working with databases, you must close the connection using a **tDBClose** component.

To close the connection even if the Job fails, **tDBClose** must be called from a **tPostJob** component.

- Add a **tPostJob** component below the last component.
- Add a **tDBClose** component below the **tPostJob** component.
- Configure the **tDBClose** component:
 - Select the database type.
 - o On the **Component List**, select the connection you created earlier.



OnSubjobOk

Customers

When using a tDBOutput component with a shared connection, data is not saved to the database unless you use a specific component to commit.

To orchestrate a Job with data validation, use:

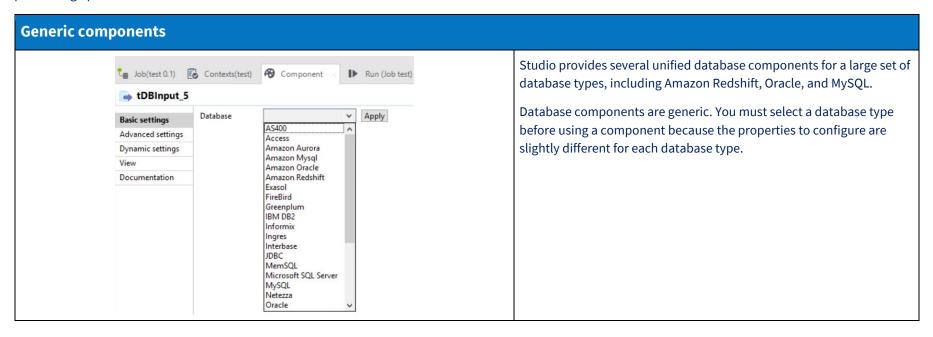
- tDBCommit triggered with an On Subjob OK trigger
- **tDBRollBack** triggered with an On Subjob Error trigger

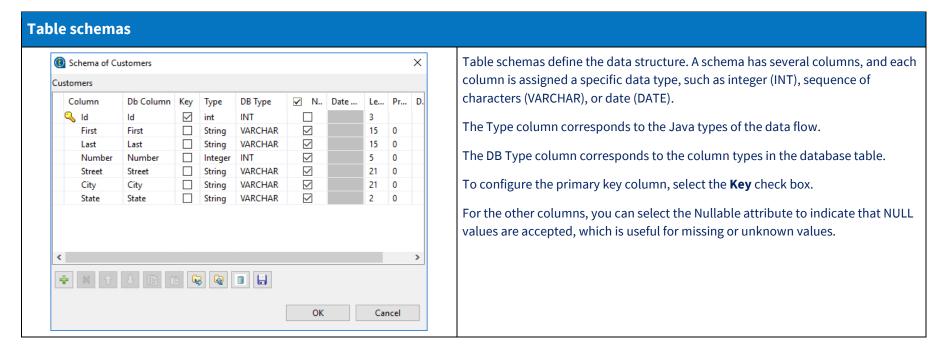
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Console

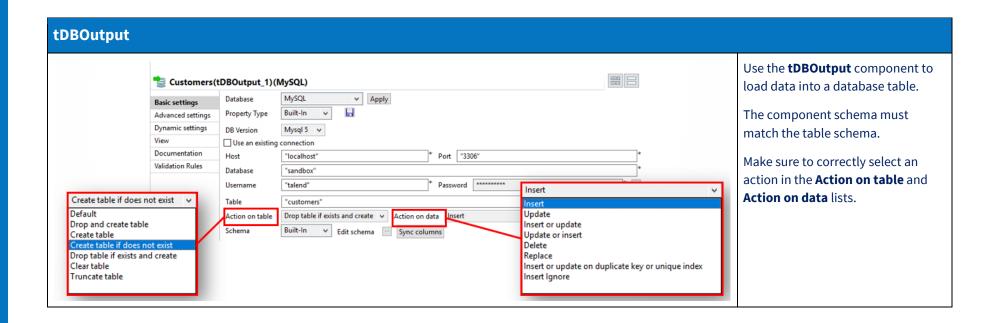
Tips

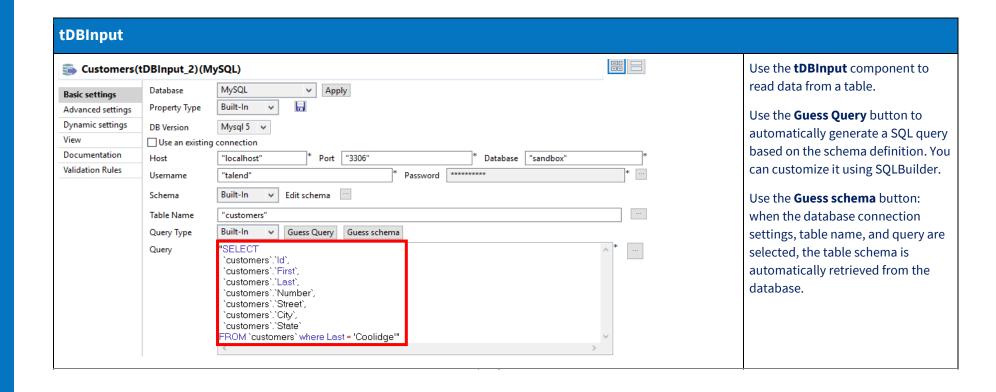
Regardless of the database type, working with a database means connecting to the database, accessing the data using the data model (table schema), and performing operations on the data.





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Table creation best practices

- Being able to create and drop a table is very convenient in the development phase. Do not use these options in a production environment.
- Production databases must be managed by a database administrator only.
- The database administrator must have full control of the production database. Using their own set of administrative tools, they have more options when creating tables.

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