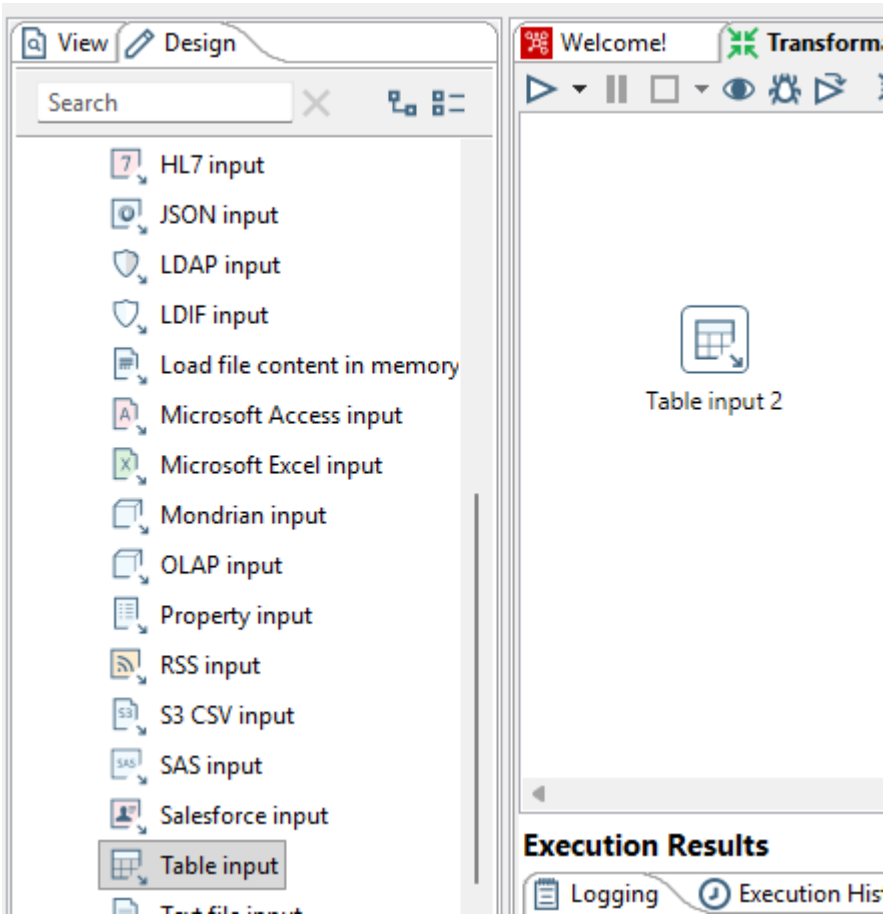
Assignment No	13
Title	Pentaho
Objective	1. Extraction of data from SQL and storing data in SQL 2. Sort Rows, Add Sequence
Roll No	MCA2516

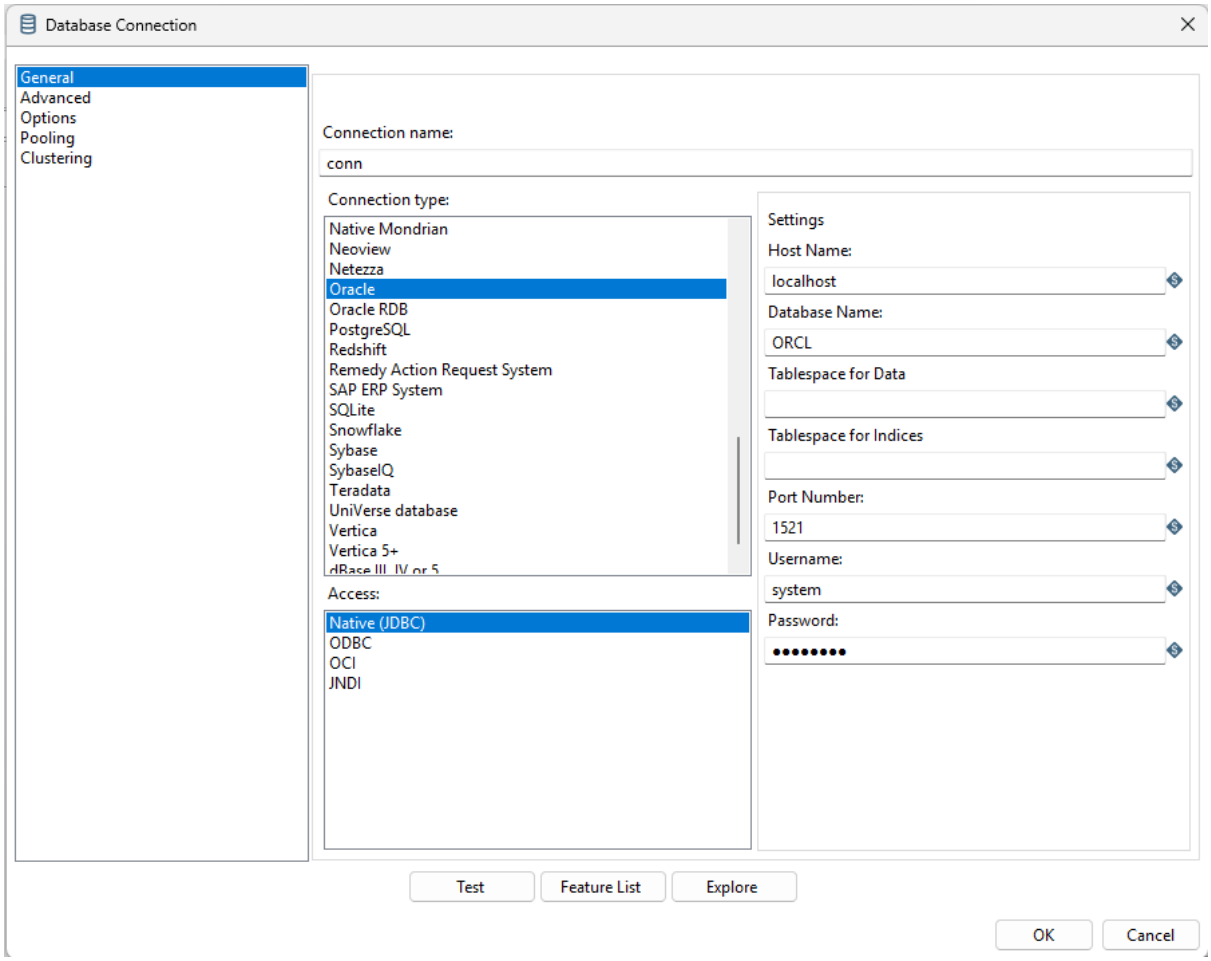
Program 1: Extraction of data from SQL and storing data in SQL

Step 1: File -> New -> Transformation

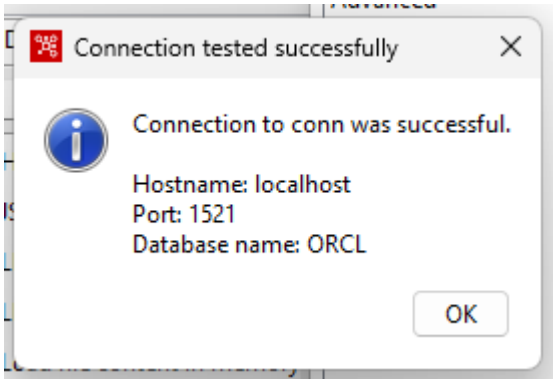
Step 2: Design -> Input -> Table Input



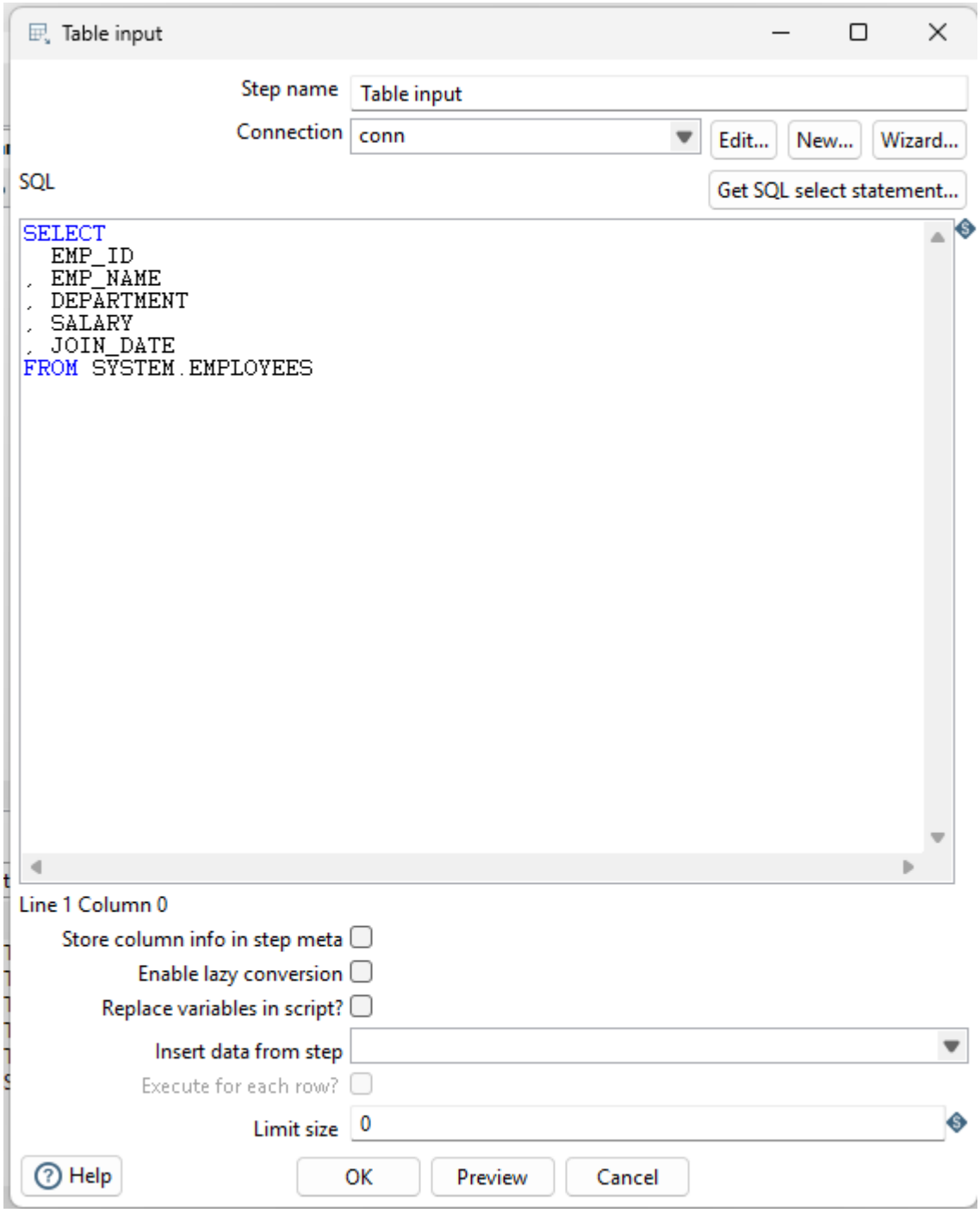
Step 3 : Database Connection configuration



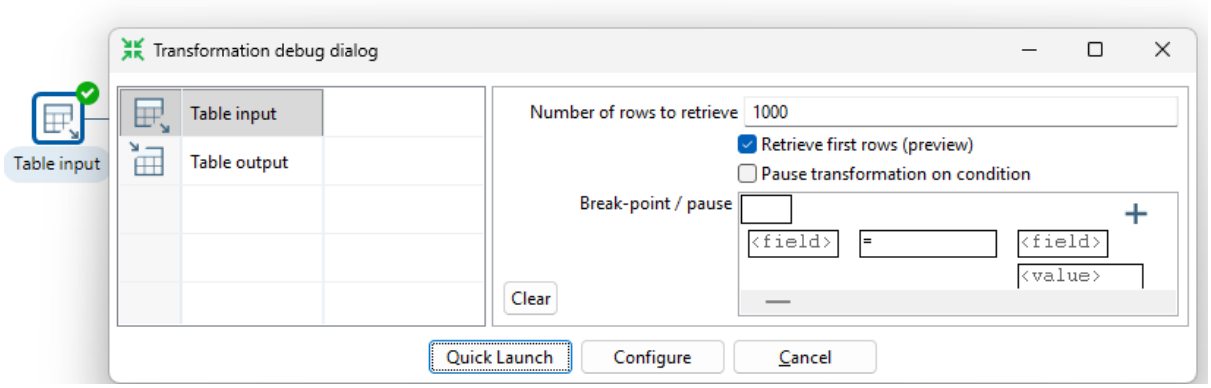
Step 4: Test for connection



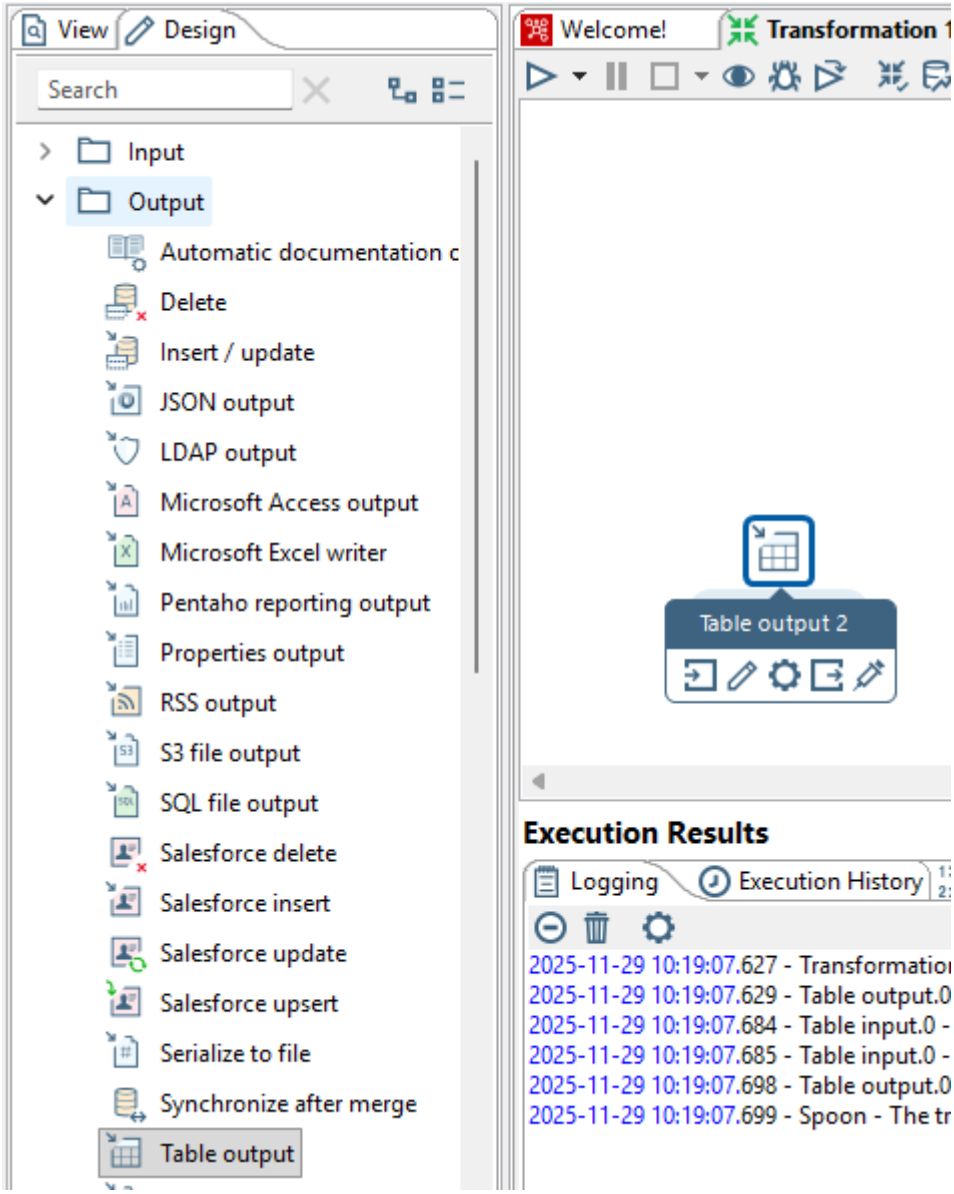
Step 5: Get SQL Statement



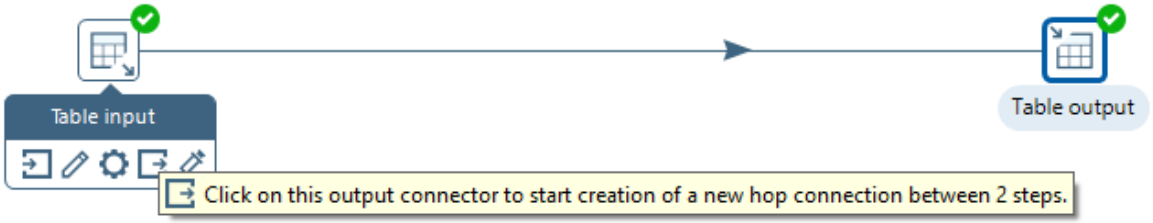
Step 6: Right Click -> Preview -> Quick Launch



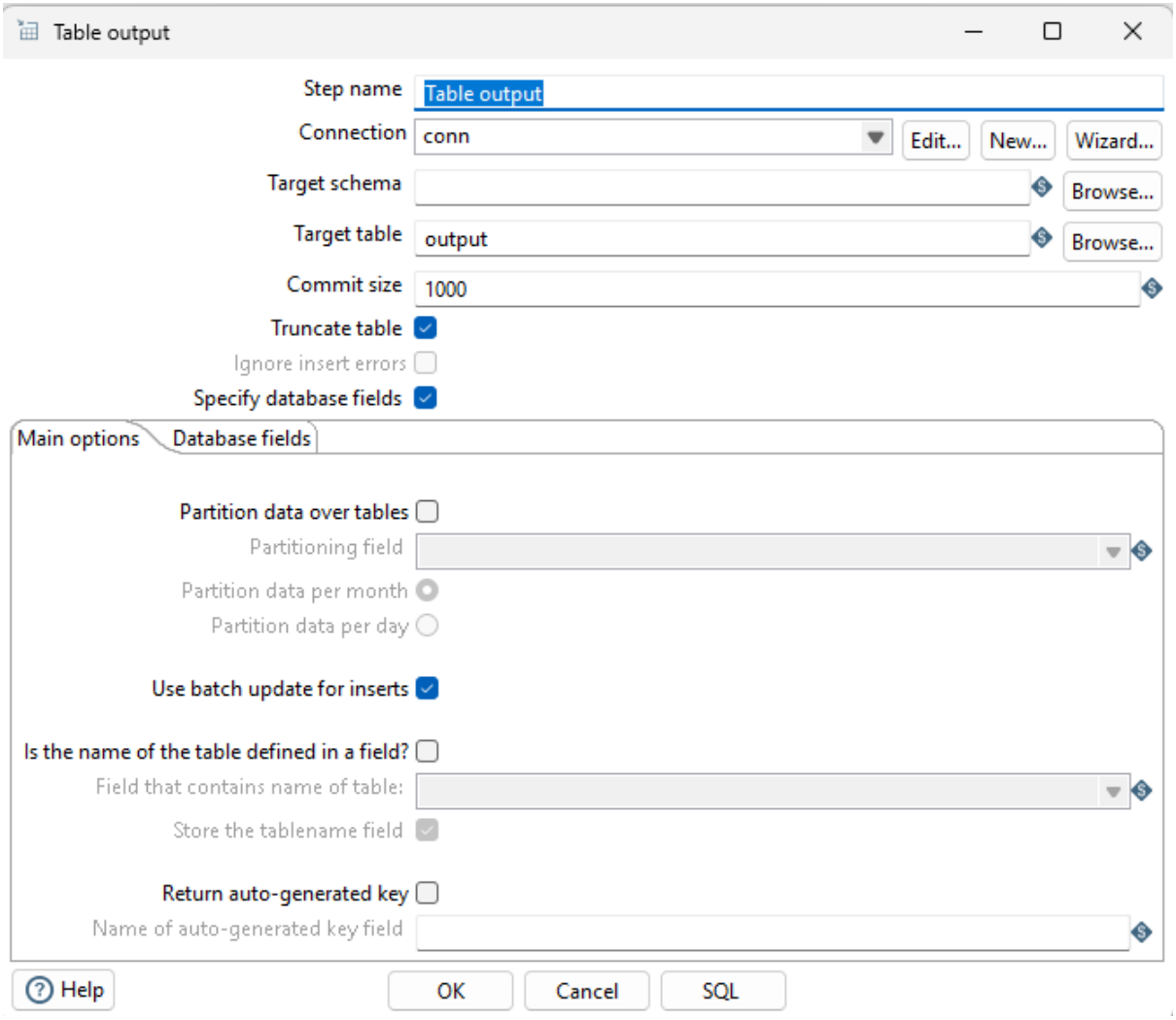
Step 7 : Design -> Output -> Table Output



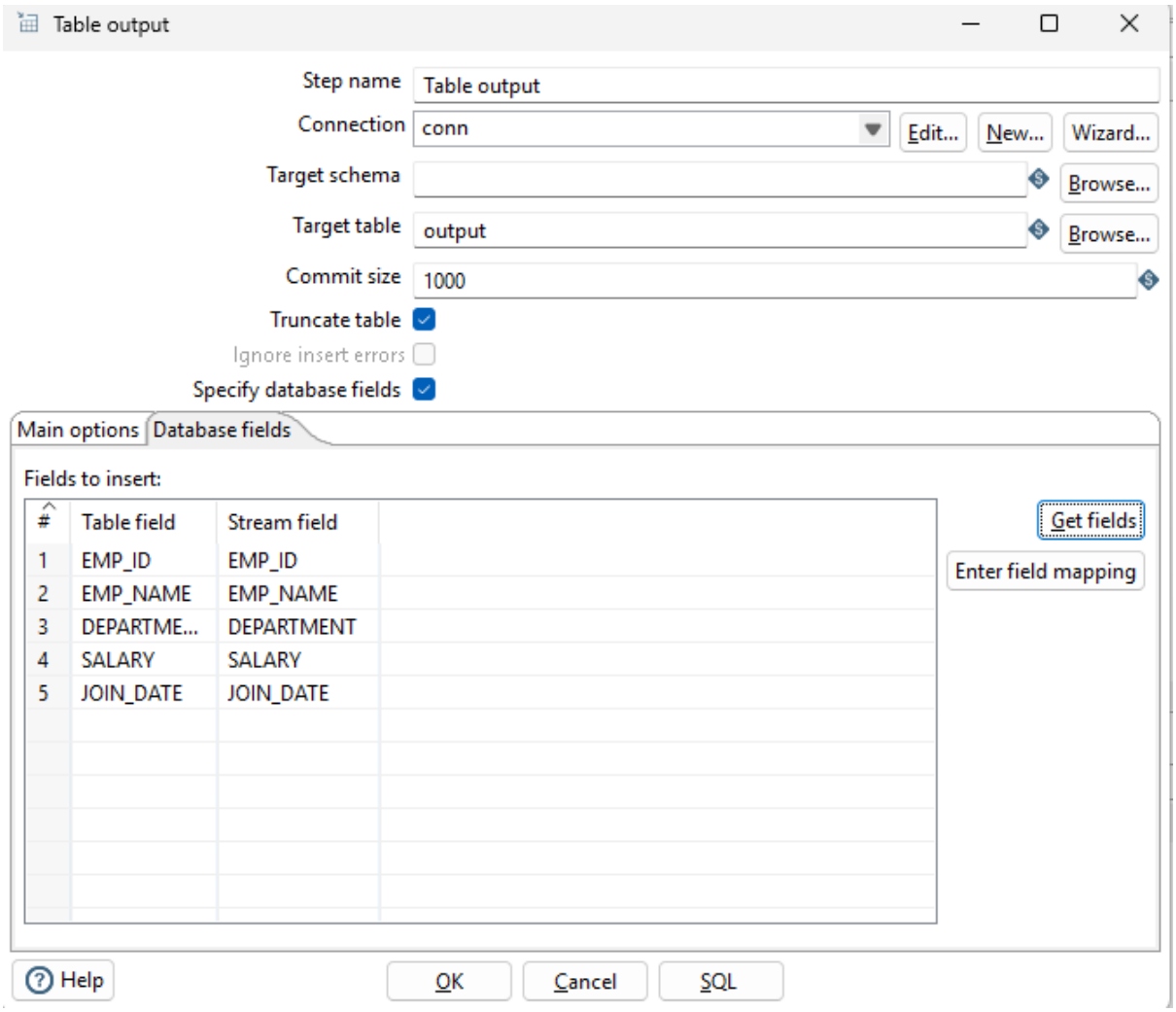
Step 9: Connect the table input with table output



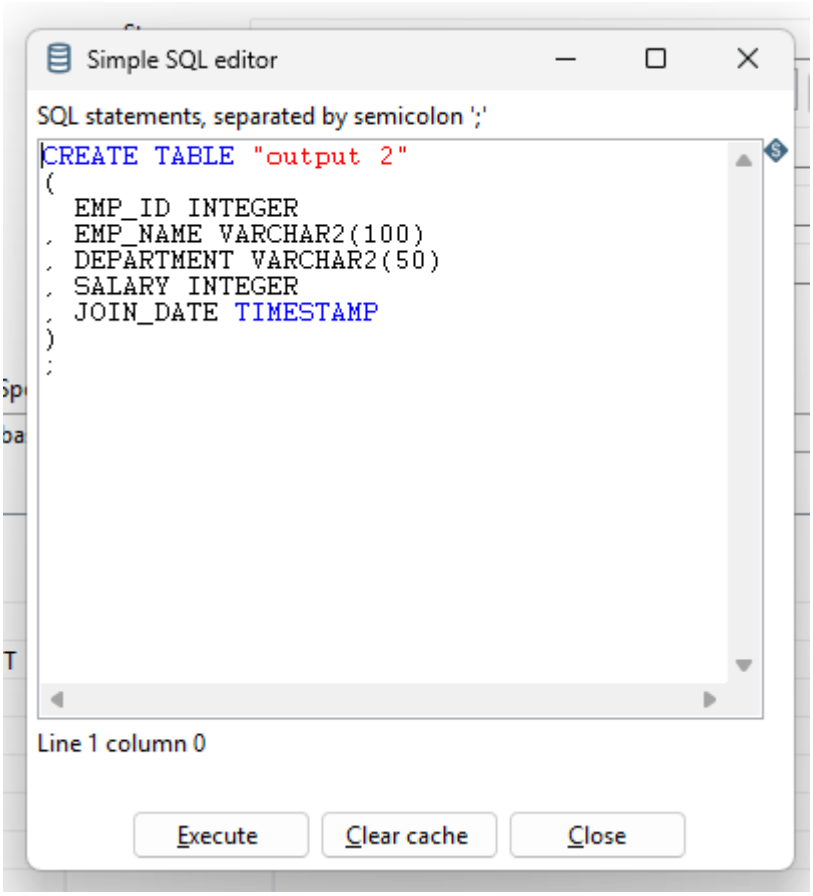
Step 10: Double Click Table output



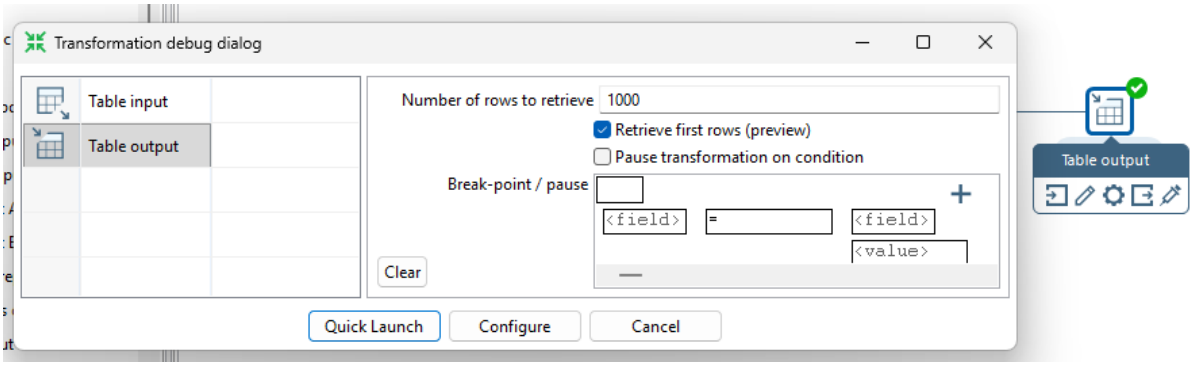
Step 11: Data field base -> get fields



Step 12: Click on SQL and execute



Step 14:



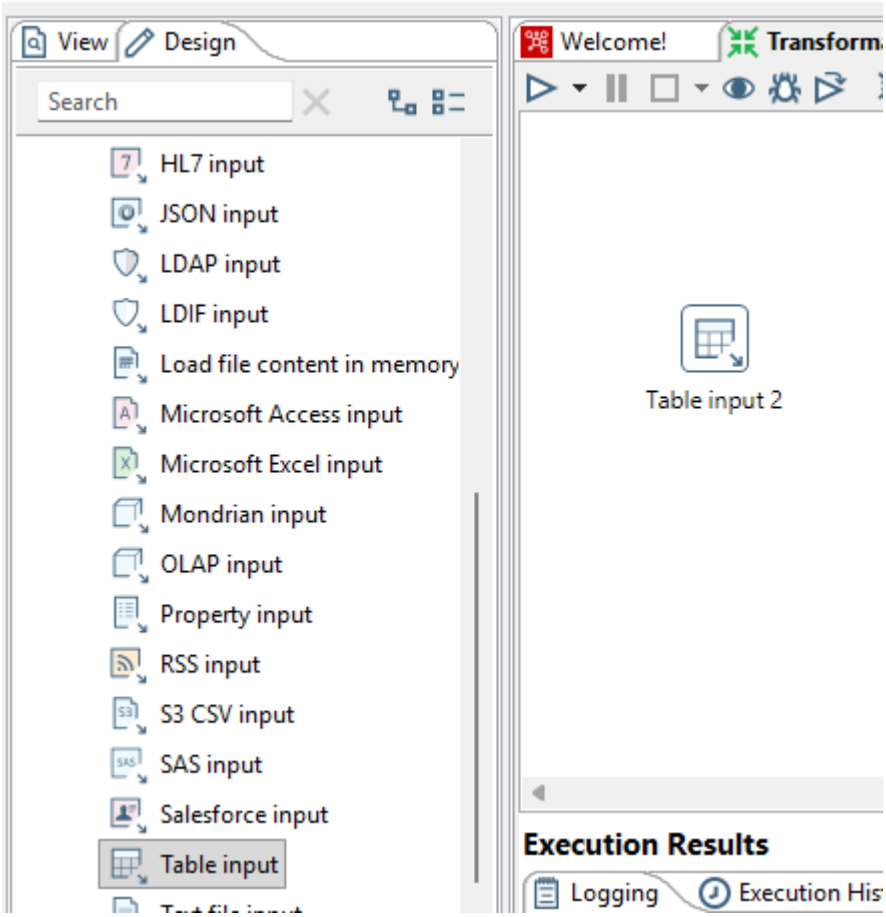
SQL Plus Output

```
SQL> select * from output;

    EMP_ID
----------
EMP_NAME
--------------------------------------------------------------------------------
DEPARTMENT                                           SALARY
-------------------------------------------------- ----------
JOIN_DATE
---------------------------------------------------------------------------

         1
Amit Sharma
IT                                                    55000
10-JAN-23 12.00.00.000000 AM


    EMP_ID
----------
EMP_NAME
--------------------------------------------------------------------------------
DEPARTMENT                                           SALARY
-------------------------------------------------- ----------
JOIN_DATE
---------------------------------------------------------------------------

         2
Neha Patel
HR                                                    48000
15-FEB-23 12.00.00.000000 AM
```

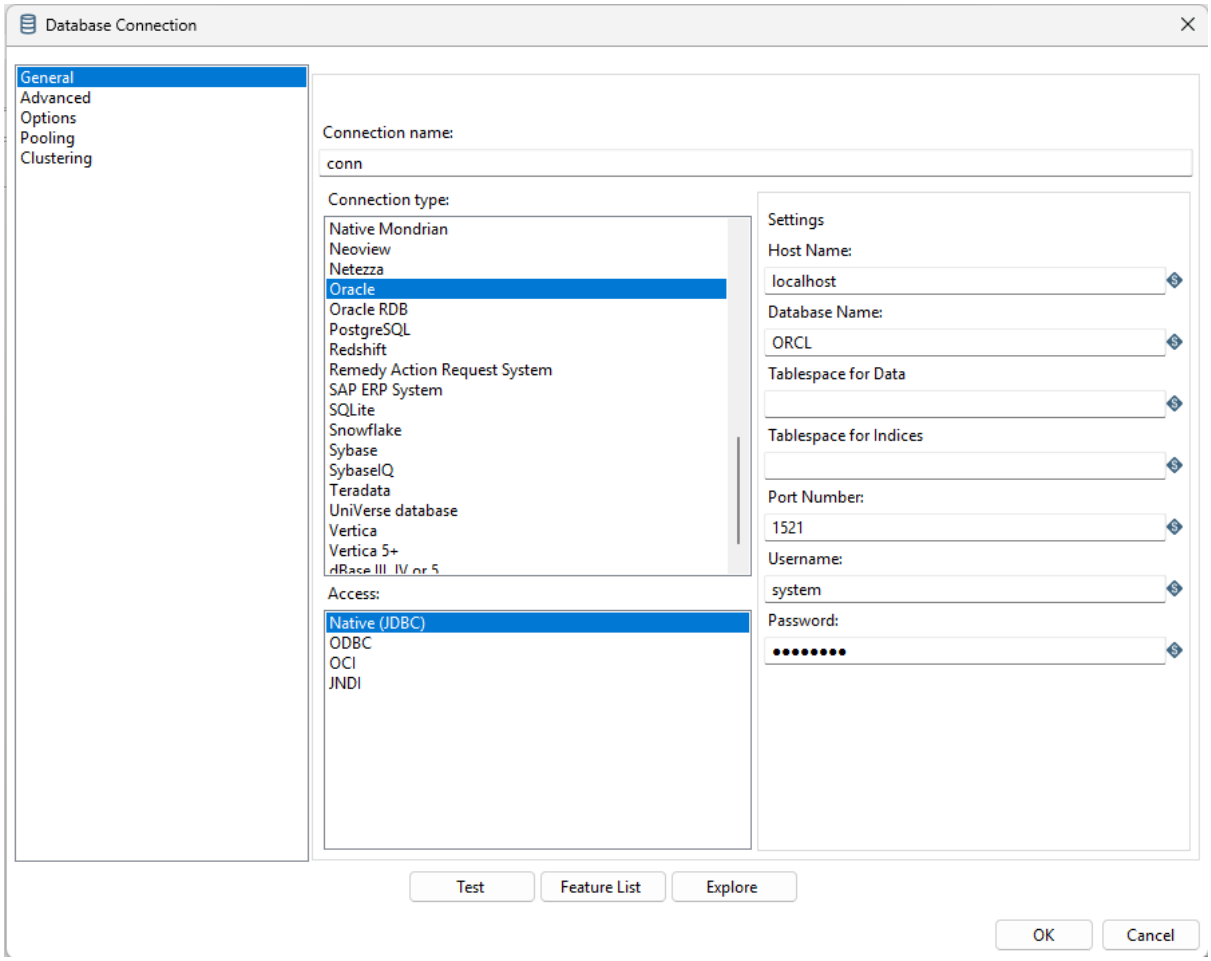
Program 2: Sort Rows, Add Sequence

Step 1: File -> New -> Transformation

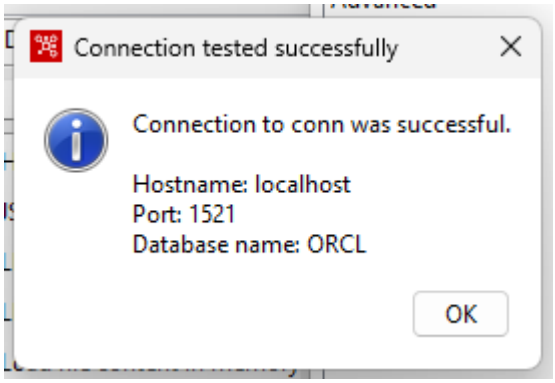
Step 2: Design -> Input -> Table Input



Step 3 : Database Connection configuration



Step 4: Test for connection



Step 5: Get SQL Statement

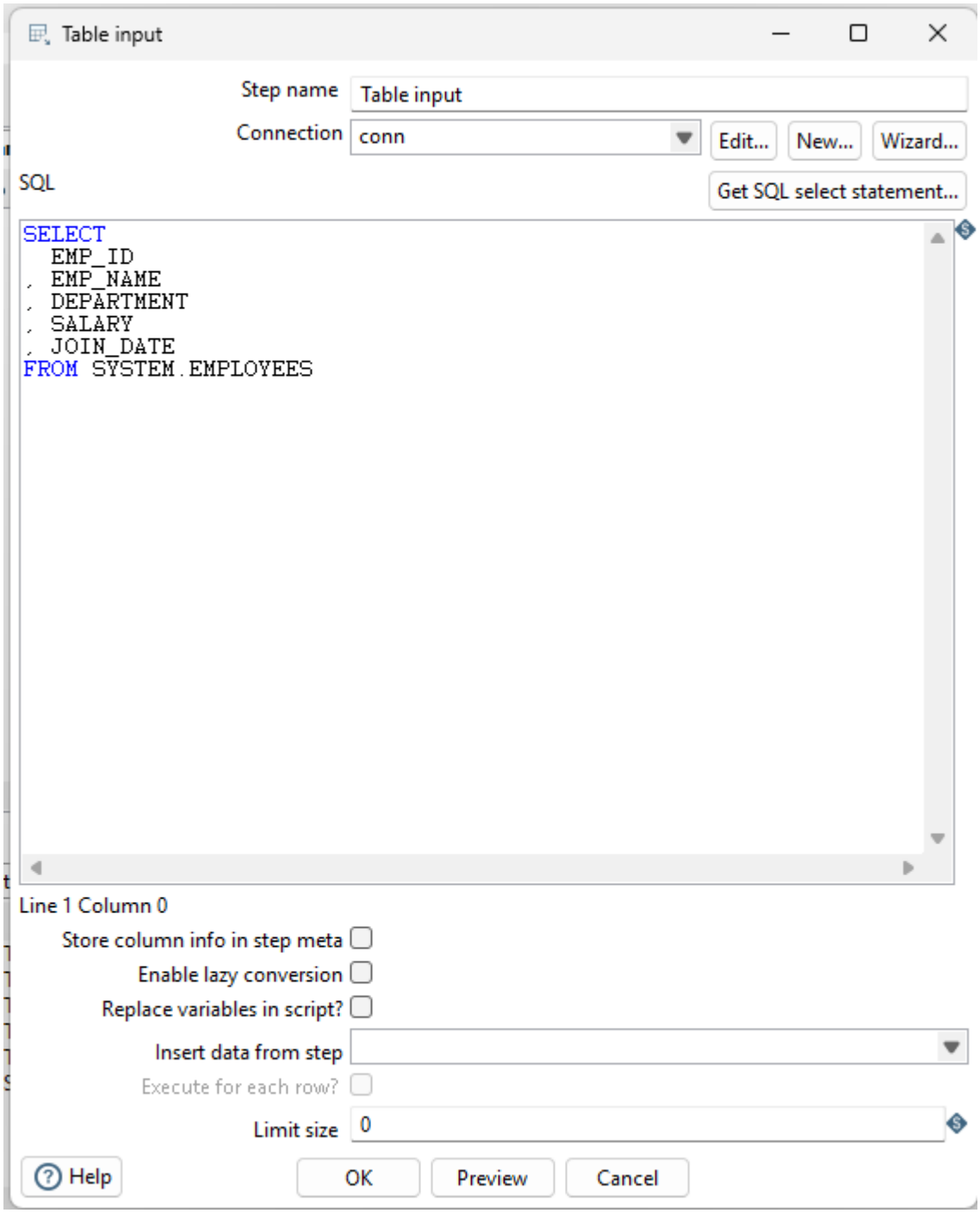
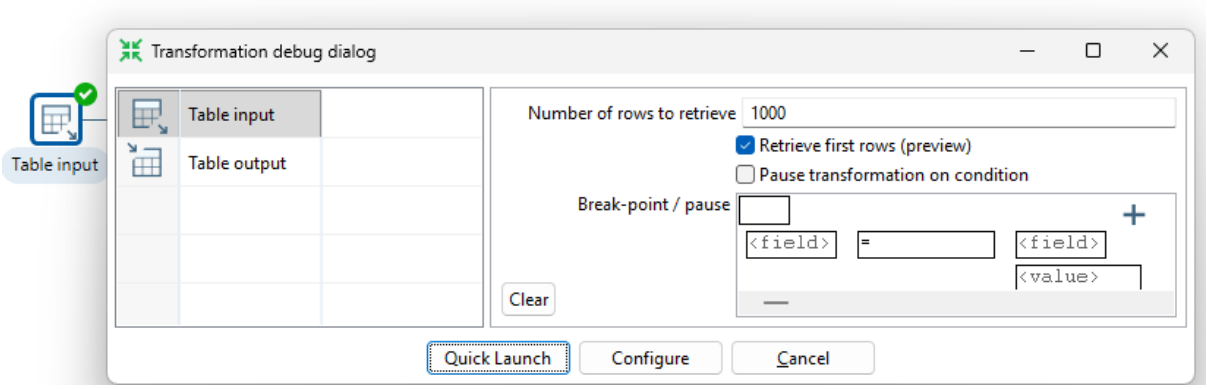
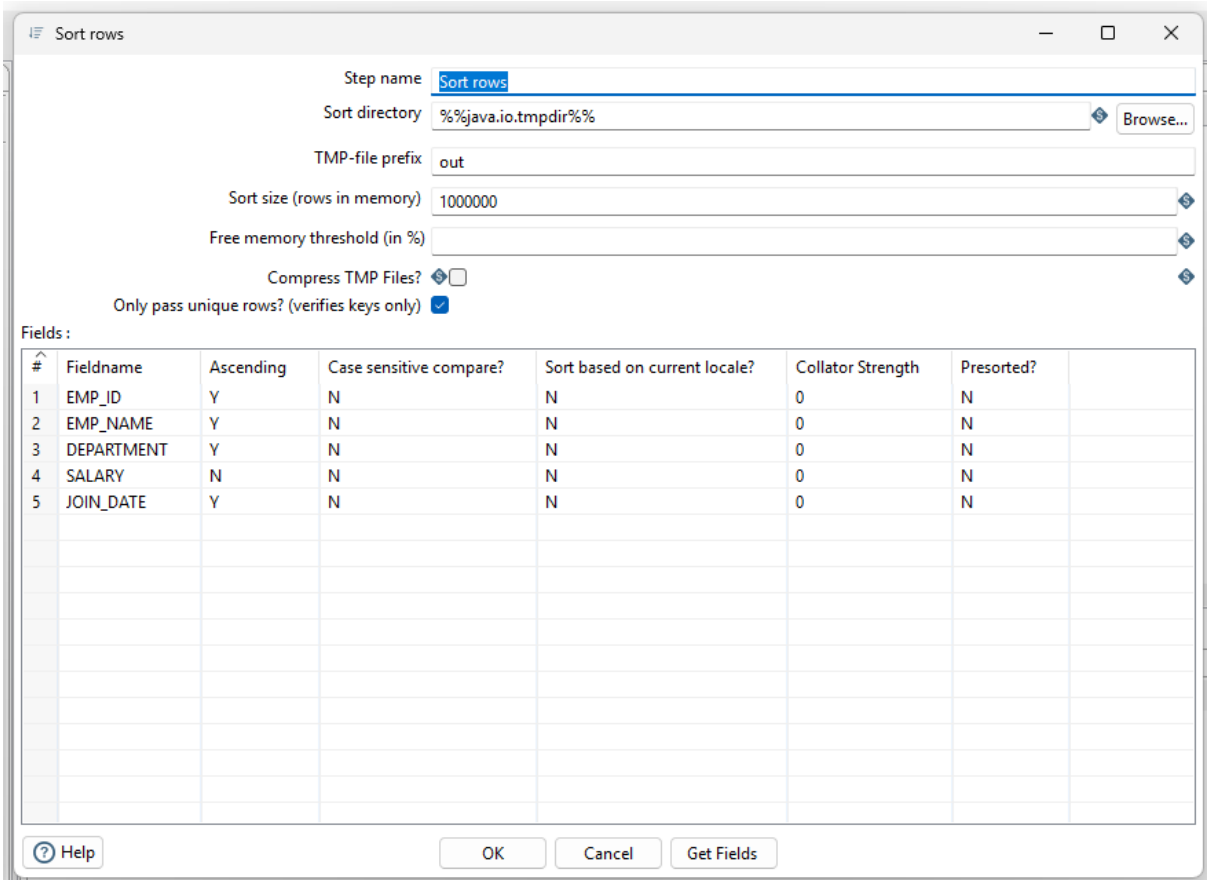


Table input
Step name
Table input
Connection
conn
Edit...
New...
Wizard...
SQL
Get SQL select statement...
SELECT
EMP_ID
, EMP_NAME
, DEPARTMENT
, SALARY
, JOIN_DATE
FROM SYSTEM.EMPLOYEES
Line 1 Column 0
Store column info in step meta
Enable lazy conversion
Replace variables in script?
Insert data from step
Execute for each row?
Limit size
0
Help
OK
Preview
Cancel

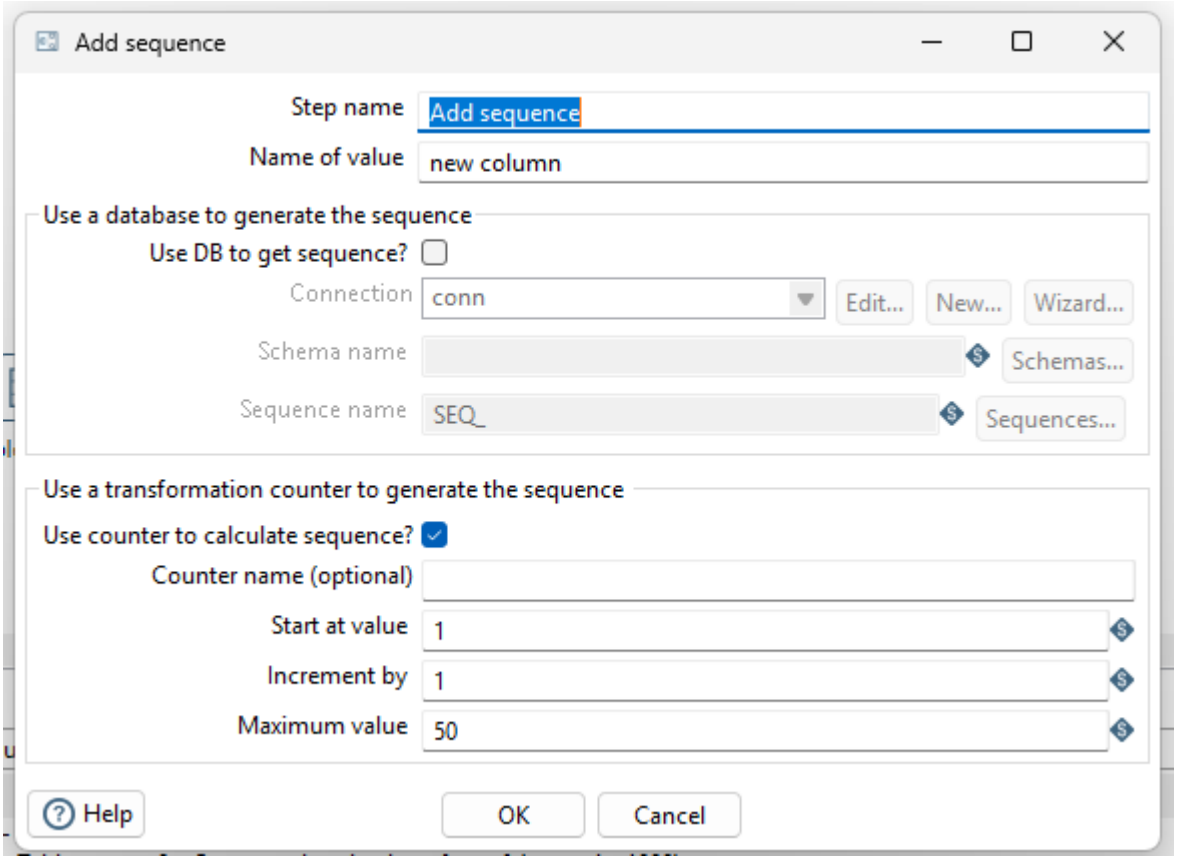
Step 6: Right Click -> Preview -> Quick Launch



Step 7: Design -> Tranformation ->sort Row -> and ad the connection

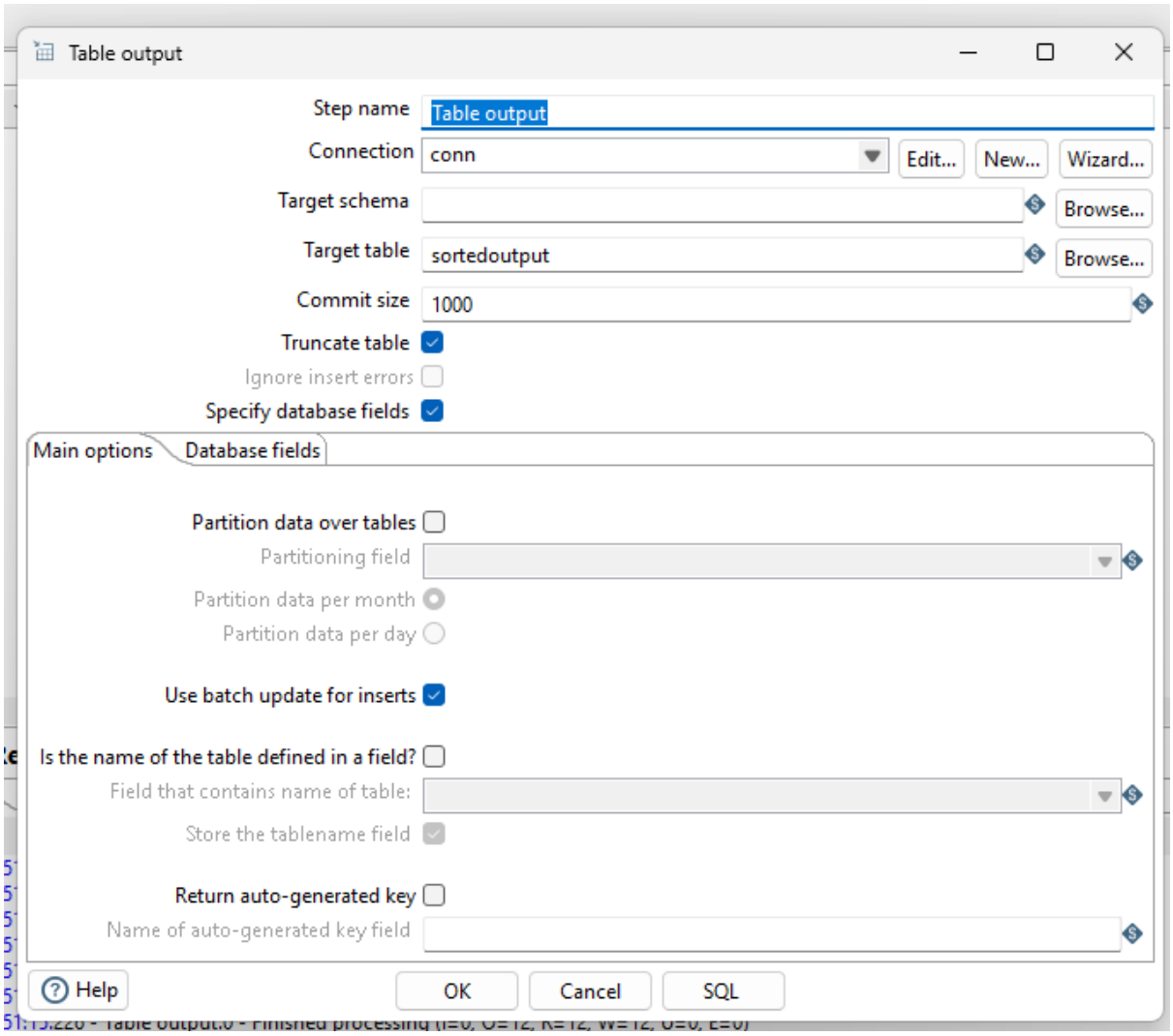


Step 8: Design -> Transformation -> Add Sequence

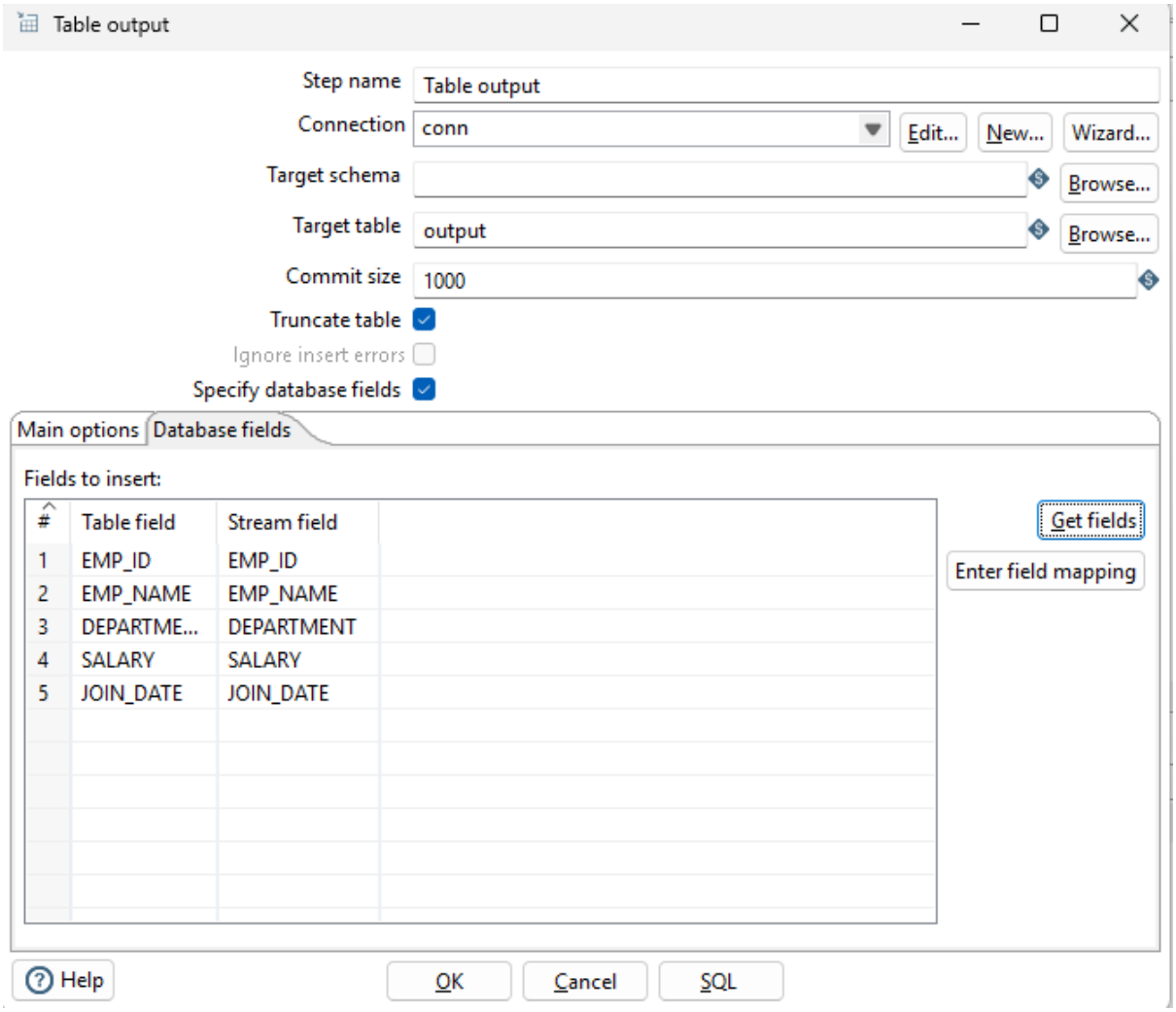


Step 9: Connect the table input with table output

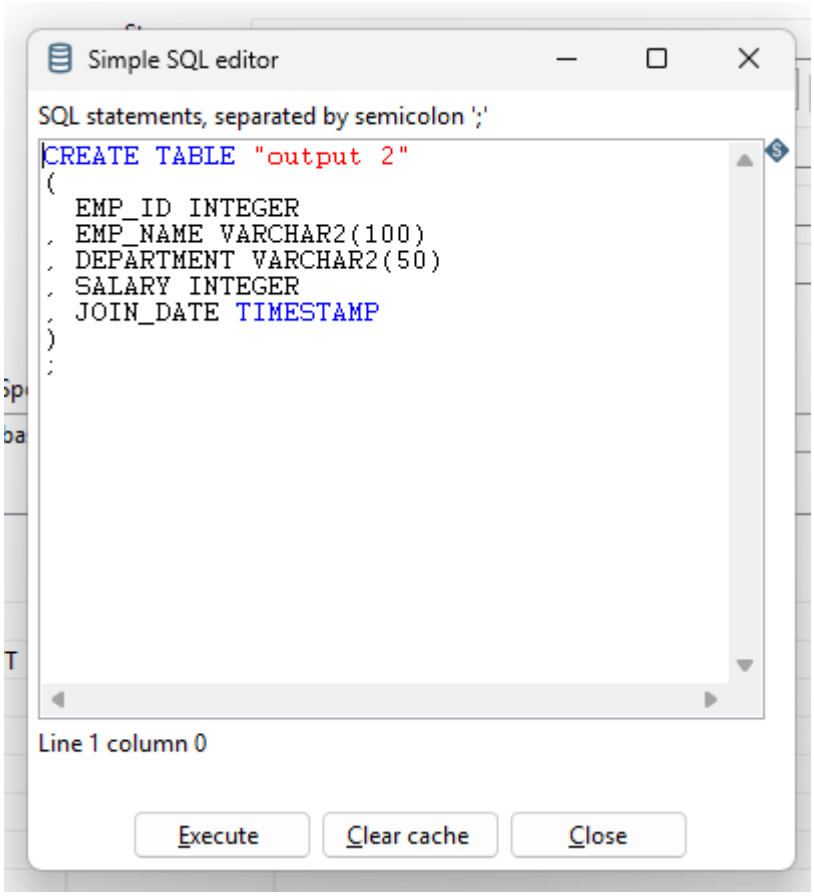
Step 10: Double Click Table output



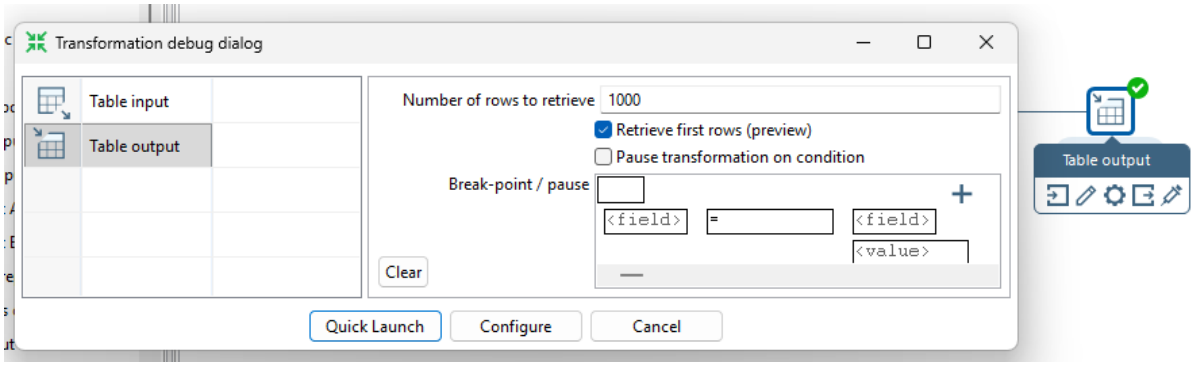
Step 11: Data field base -> get fields



Step 12: Click on SQL and execute


Simple SQL editor
SQL statements, separated by semicolon ';'
CREATE TABLE "output 2"
(
EMP_ID INTEGER
, EMP_NAME VARCHAR2(100)
, DEPARTMENT VARCHAR2(50)
, SALARY INTEGER
, JOIN_DATE TIMESTAMP
)
;
Line 1 column 0
Execute
Clear cache
Close

Step 14:


Transformation debug dialog
Table input
Table output
Number of rows to retrieve
1000
Retrieve first rows (preview)
Pause transformation on condition
Break-point / pause
<field>
=
<field>
<value>
Clear
Quick Launch
Configure
Cancel
Table output

Output:

Examine preview data

Rows of step: Table output (12 rows)

#	EMP_ID	EMP_NAME	DEPARTMENT	SALARY	JOIN_DATE	new column
1	1	Amit Sharma	IT	55000	2023/01/10 00:00:00.000000000	1
2	2	Neha Patel	HR	48000	2023/02/15 00:00:00.000000000	2
3	3	Rohit Verma	Finance	60000	2023/03/12 00:00:00.000000000	3
4	4	Priya Singh	Marketing	52000	2023/04/01 00:00:00.000000000	4
5	5	Suresh Rao	Operations	47000	2023/05/20 00:00:00.000000000	5
6	6	Karan Mehta	IT	58000	2023/06/11 00:00:00.000000000	6
7	7	Isha Kapoor	HR	45000	2023/07/25 00:00:00.000000000	7
8	8	Manish Gupta	Finance	62000	2023/08/14 00:00:00.000000000	8
9	9	Divya Desai	Marketing	51000	2023/09/30 00:00:00.000000000	9
10	10	Harshad Jain	Operations	49000	2023/10/03 00:00:00.000000000	10
11	11	Pooja Nair	IT	61000	2023/11/18 00:00:00.000000000	11
12	12	Vikas Yadav	Finance	64000	2023/12/05 00:00:00.000000000	12

SQL Output:

SQL Plus

```
SQL> select * from sortedoutput;

    EMP_ID
----------
EMP_NAME
--------------------------------------------------------------------------------
DEPARTMENT                                              SALARY
-------------------------------------------------- ----------
JOIN_DATE
---------------------------------------------------------------------------
new column
----------
         1
Amit Sharma
IT                                                      55000

    EMP_ID
----------
EMP_NAME
--------------------------------------------------------------------------------
DEPARTMENT                                              SALARY
-------------------------------------------------- ----------
JOIN_DATE
---------------------------------------------------------------------------
new column
----------
10-JAN-23 12.00.00.000000 AM
         1
```