



**TGH**

Making Integrations Simpler



# Implementation of Stored procedure while writing in BOOMI

**Author**

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## Introduction to Stored Procedure:

A stored procedure is a precompiled collection of one or more SQL statements stored on the database server. They are used to encapsulate repetitive tasks, complex business logic, or a series of operations that need to be performed on the database. Stored procedures help improve the performance, maintainability, and security of database operations.

### Key Benefits of Stored Procedures

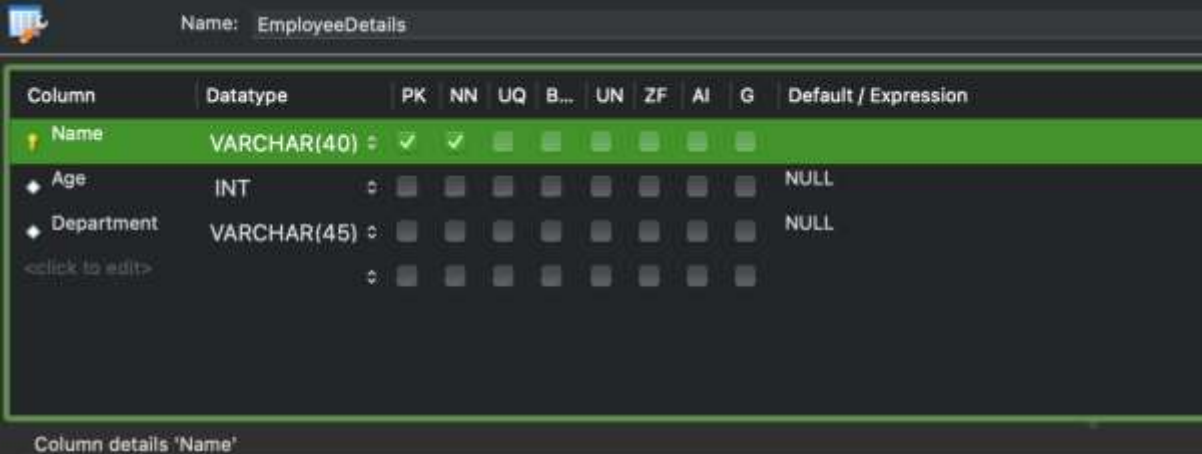
1. **Performance:** Since stored procedures are precompiled, they execute faster than individual SQL statements. The database server can optimize and cache the execution plan.
2. **Maintainability:** Encapsulating logic in stored procedures makes it easier to update and maintain without affecting application code.
3. **Security:** Stored procedures can help protect against SQL injection by parameterizing inputs. They also allow for fine-grained access control.

### Types of Parameters in Stored Procedures

Stored procedures can accept parameters to make them dynamic and reusable. These parameters can be classified into three types:

1. **IN Parameters:** These are input parameters that allow the caller to pass values into the stored procedure.
2. **OUT Parameters:** These are output parameters that allow the stored procedure to pass values back to the caller.
3. **INOUT Parameters:** These parameters can both receive input and return output.

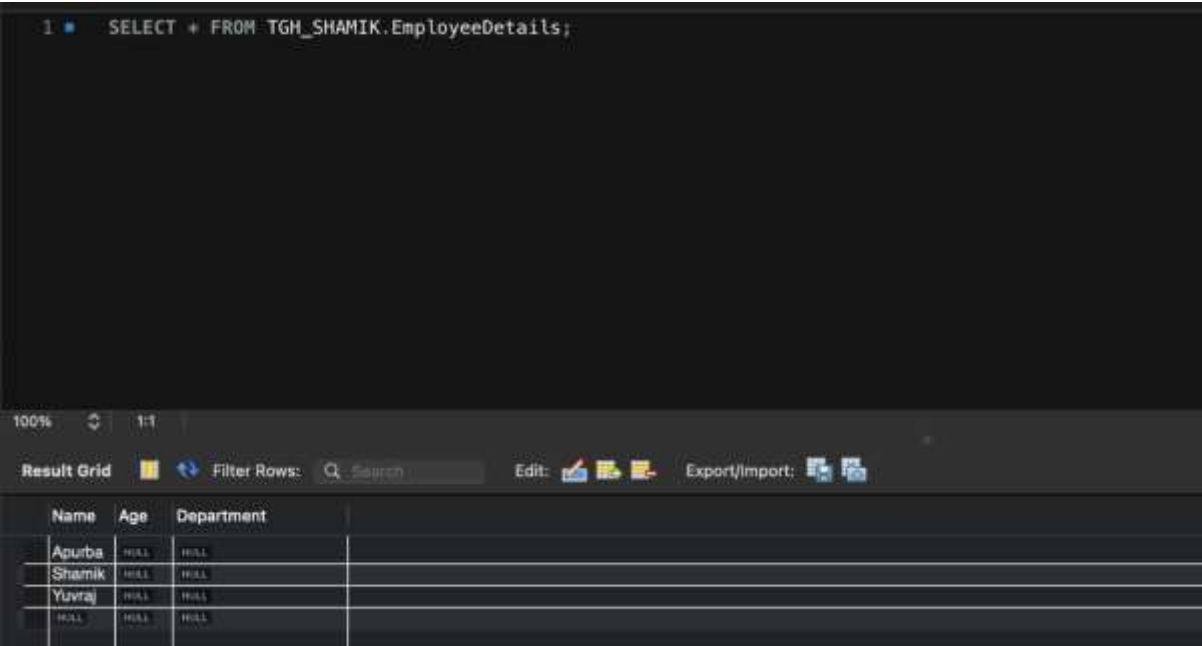
**STEP 1:** Create a table called EmployeeDetail in the database and create a stored procedure.



Name: EmployeeDetails

Column	Datatype	PK	NN	UQ	B...	UN	ZF	AI	G	Default / Expression
Name	VARCHAR(40)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Age	INT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
Department	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
<click to edit>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Column details 'Name'



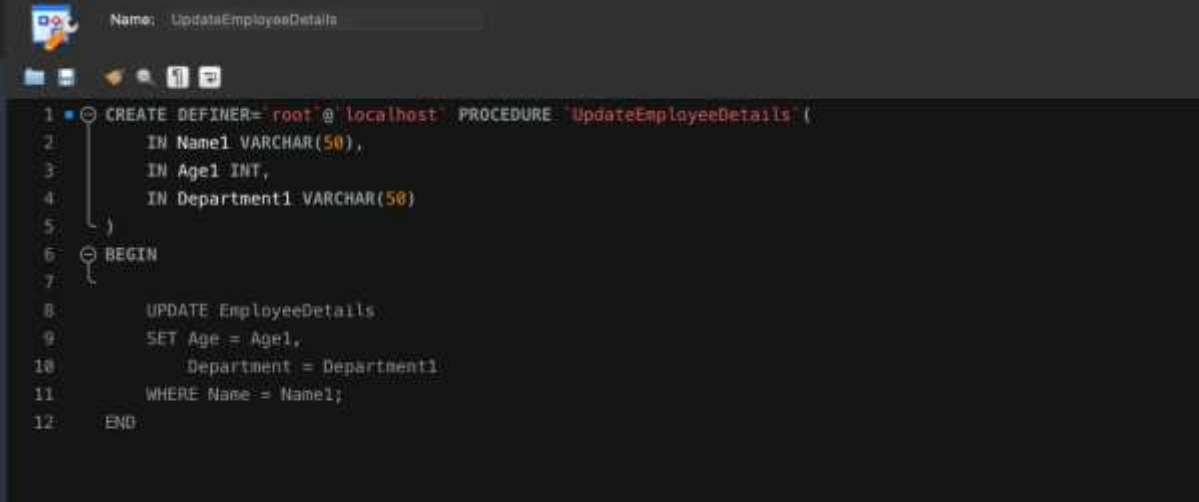
```
1 SELECT * FROM TGH_SHAMIK.EmployeeDetails;
```

100% 1:1

Result Grid Filter Rows: Search Edit: Export/Import:

Name	Age	Department
Apurba	NULL	NULL
Shamik	NULL	NULL
Yuvraj	NULL	NULL
NULL	NULL	NULL

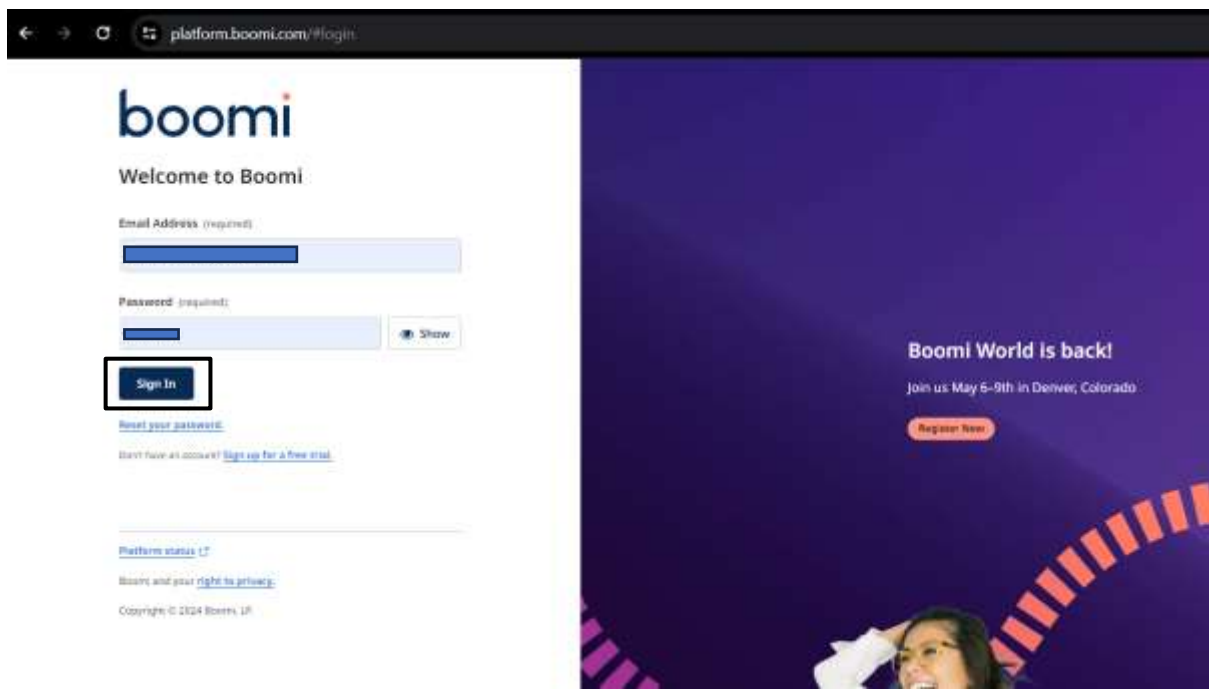
**STEP 2:** Create a stored procedure in the database.



```
1 CREATE DEFINER='root'@'localhost' PROCEDURE `UpdateEmployeeDetails` (  
2     IN Name1 VARCHAR(50),  
3     IN Age1 INT,  
4     IN Department1 VARCHAR(50)  
5 )  
6 BEGIN  
7     UPDATE EmployeeDetails  
8     SET Age = Age1,  
9         Department = Department1  
10    WHERE Name = Name1;  
11 END
```

```
CREATE DEFINER='<username>'@'<hostname>' PROCEDURE  
`UpdateEmployeeDetails`(  
    IN Name1 VARCHAR(50),  
    IN Age1 INT,  
    IN Department1 VARCHAR(50)  
)  
BEGIN UPDATE <table_name>  
    SET Age = Age1,  
        Department = Department1  
    WHERE Name = Name1;  
END
```

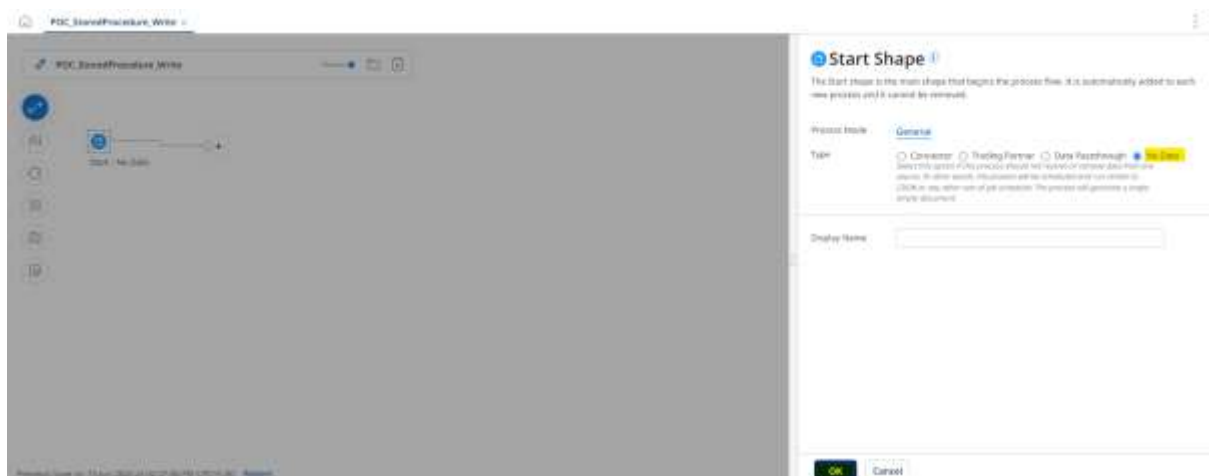
### STEP 3: Log in to the Boomi Platform.



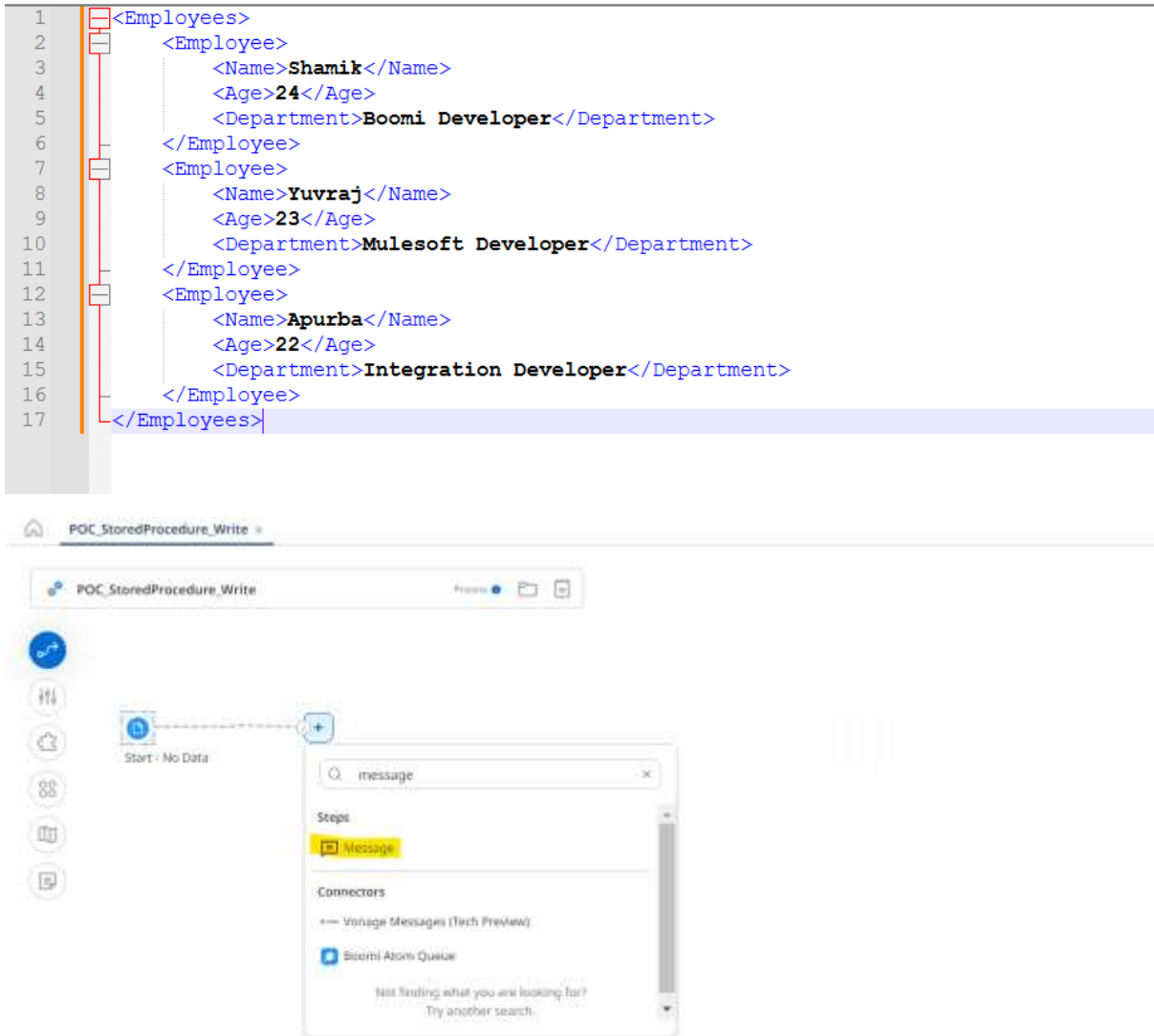
### STEP 4: Click on the (+) sign to create a new component Process.



### STEP 5: Select the Start shape as **no data** and click **OK**.



**STEP 6:** Now, we will provide the XML data through message shape. Click on the (+) beside the Start shape and choose Message shape.



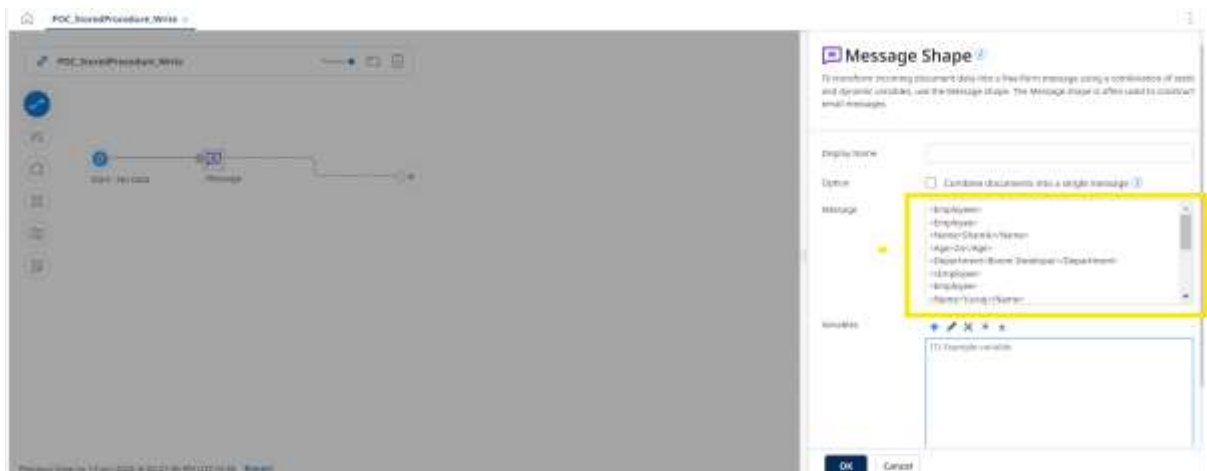
The top part of the image shows an XML snippet for an 'Employees' list:

```

1 <Employees>
2   <Employee>
3     <Name>Shamik</Name>
4     <Age>24</Age>
5     <Department>Boomi Developer</Department>
6   </Employee>
7   <Employee>
8     <Name>Yuvraj</Name>
9     <Age>23</Age>
10    <Department>Mulesoft Developer</Department>
11  </Employee>
12  <Employee>
13    <Name>Apurba</Name>
14    <Age>22</Age>
15    <Department>Integration Developer</Department>
16  </Employee>
17 </Employees>
  
```

The bottom part of the image shows the MuleSoft interface. A 'Start - No Data' shape is selected, and a '+' icon is clicked. A search window is open with 'message' entered. The 'Message' step is highlighted in the search results.

**STEP 7:** Put the file in message shape and click **OK**.



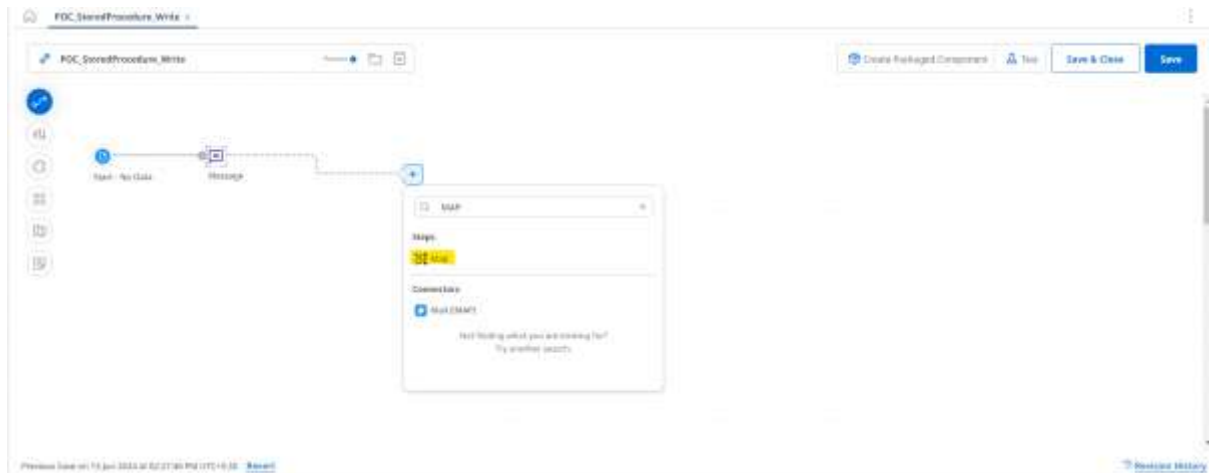
The screenshot shows the MuleSoft interface with the 'Message Shape' dialog box open. The 'Message' field contains the XML snippet from the previous step. The 'Combine Documents into a single message' checkbox is checked. The 'OK' button is highlighted.

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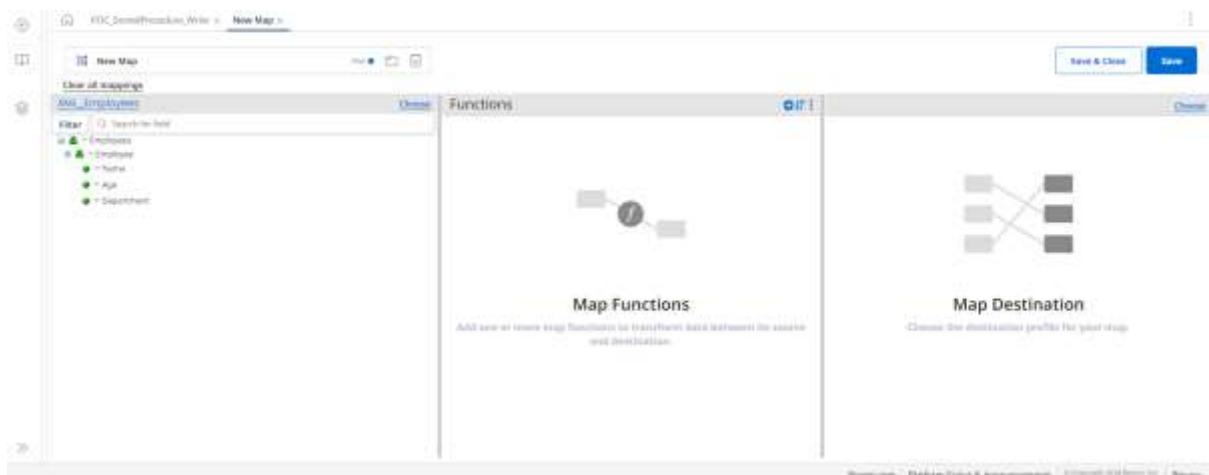
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**STEP 8:** Now take a **Map** shape.



**STEP 9:** Create one profile according to the data you are passing, choose the profile in the source of the map shape and keep the destination as empty as of now.

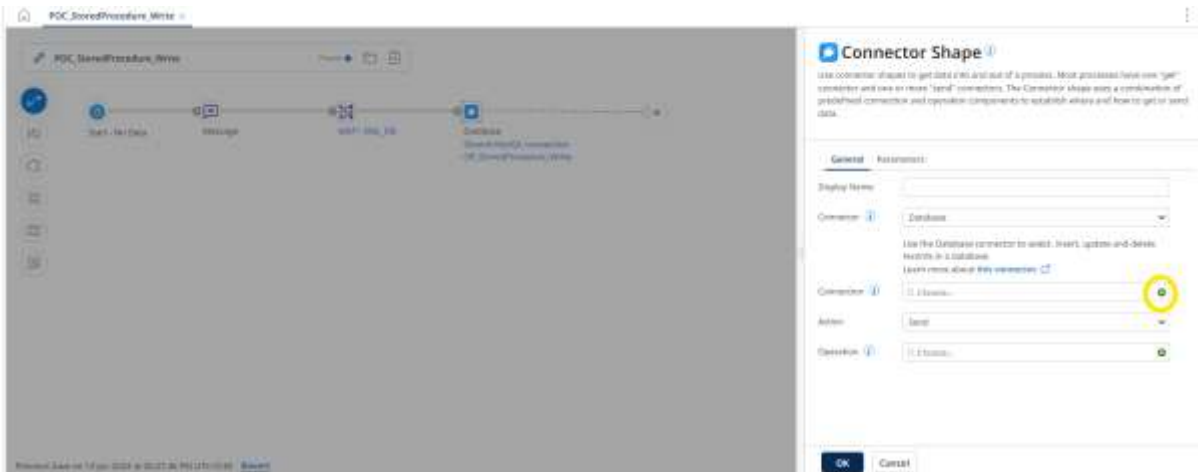


**STEP 10:** Click on Save & Close.

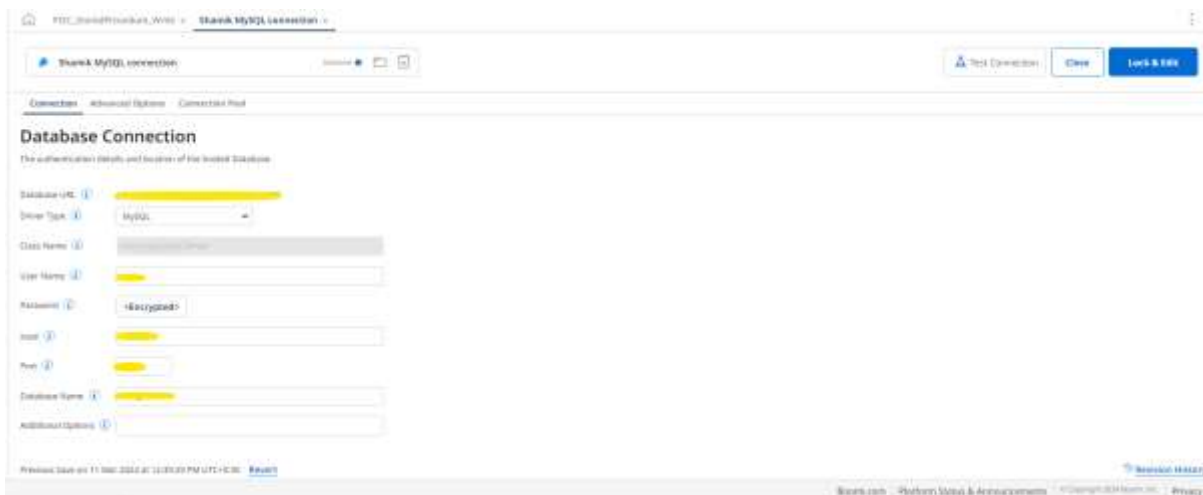
**STEP 11:** Take Database Connector.



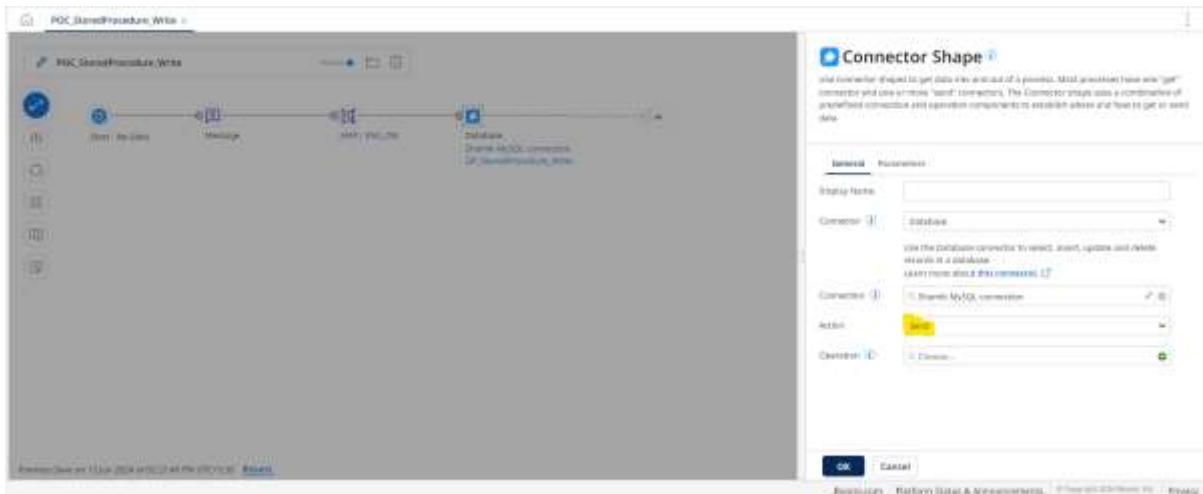
**STEP 12:** Create a Database **connection** by clicking on +.



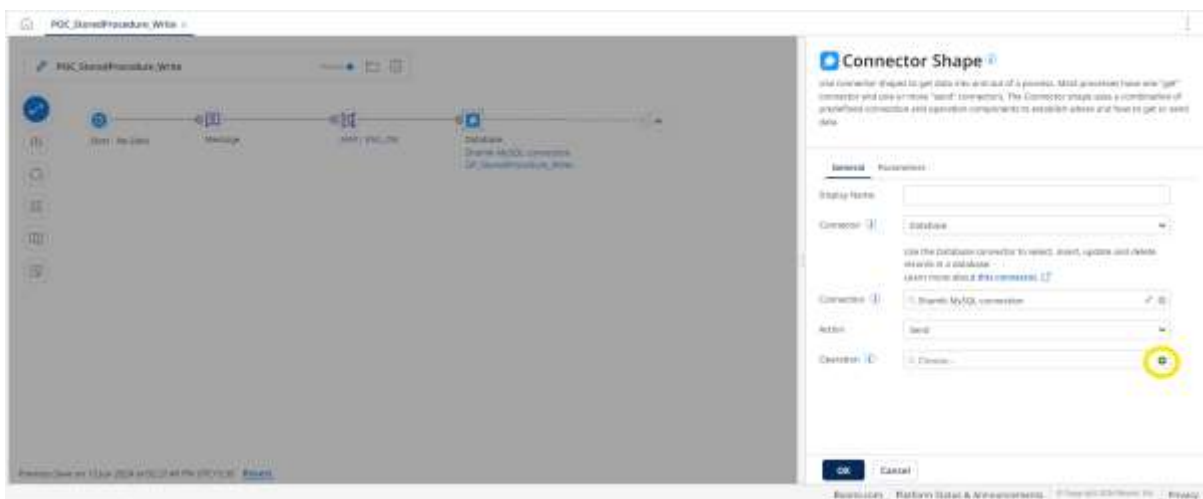
**STEP 13:** Provide the details like Database URL (you will get from MYSQL workbench), Username, Password, Host, Port, and Database Name (Schema Name). Then click on Save & Close.



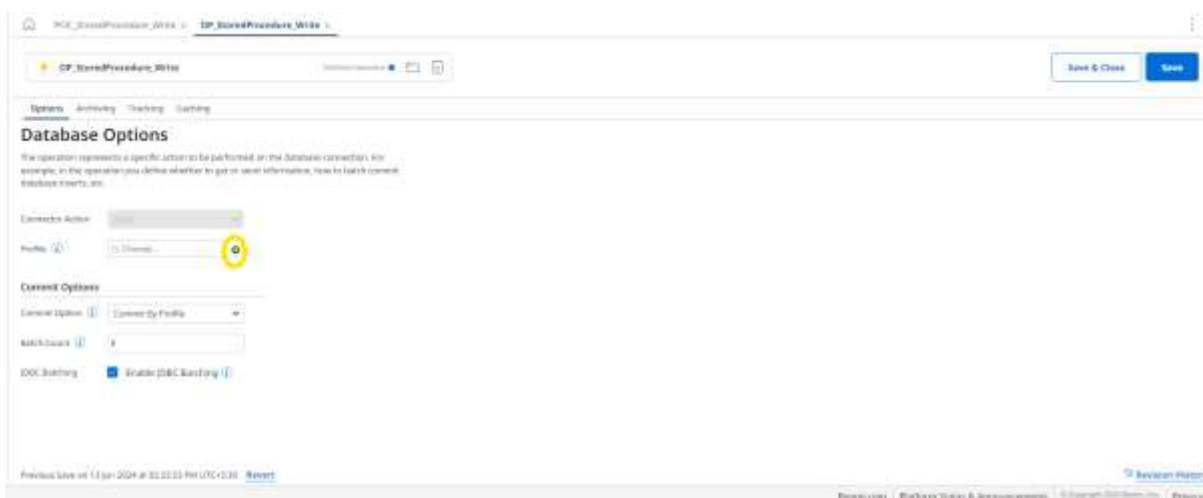
**STEP 14:** Choose the action as **Send**.



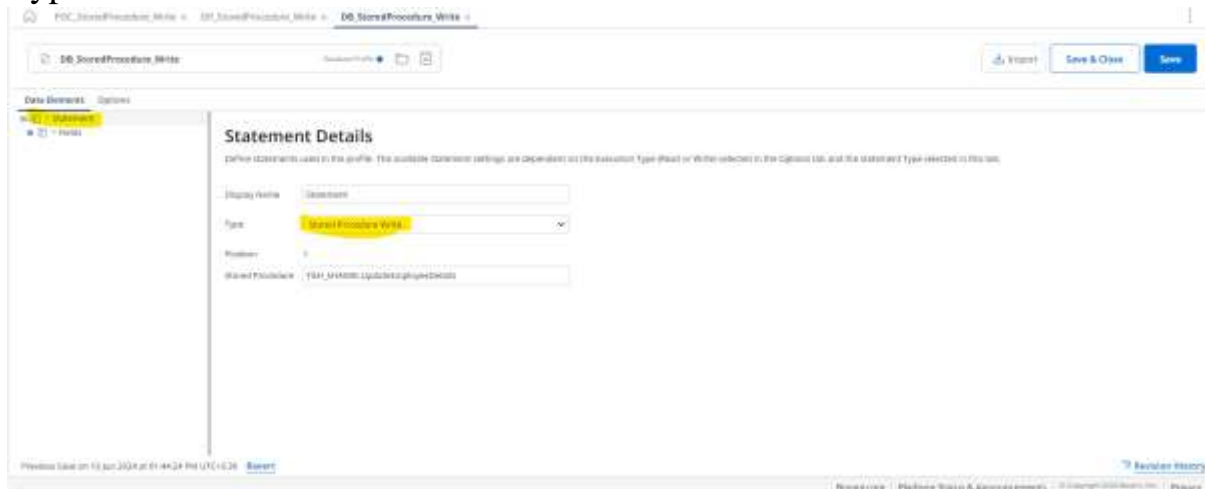
**STEP 15:** Create one **operation** by clicking on +.



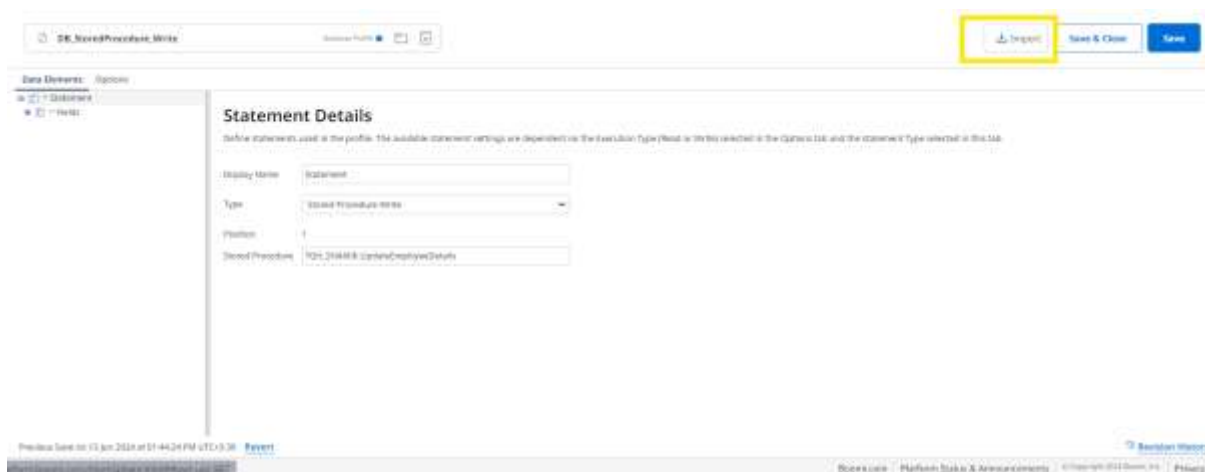
**STEP 16:** Create a database **profile** in the operation by clicking +.



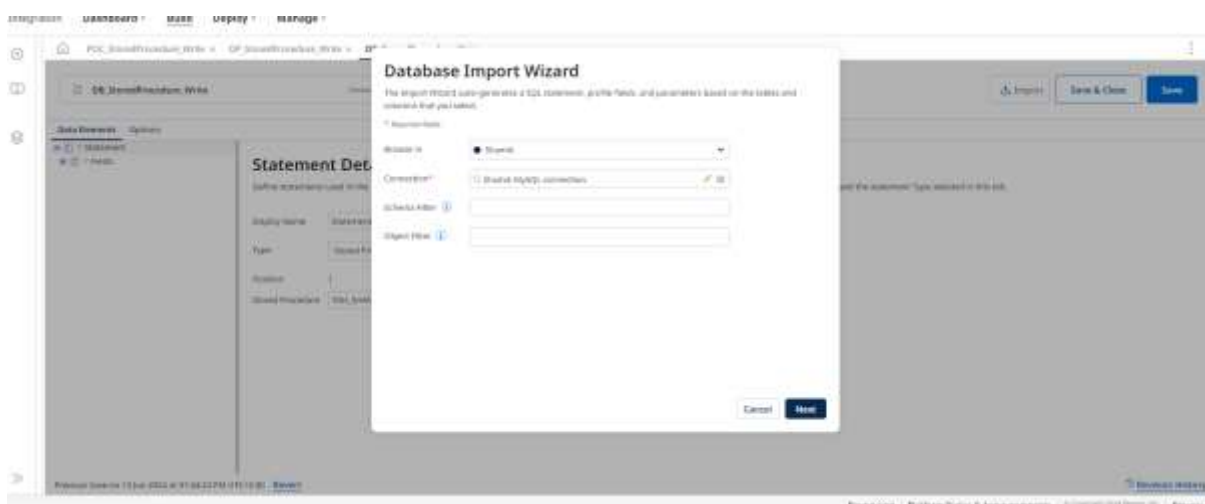
**STEP 17:** Select the **Statement** and select the **Stored procedure write as Type**.



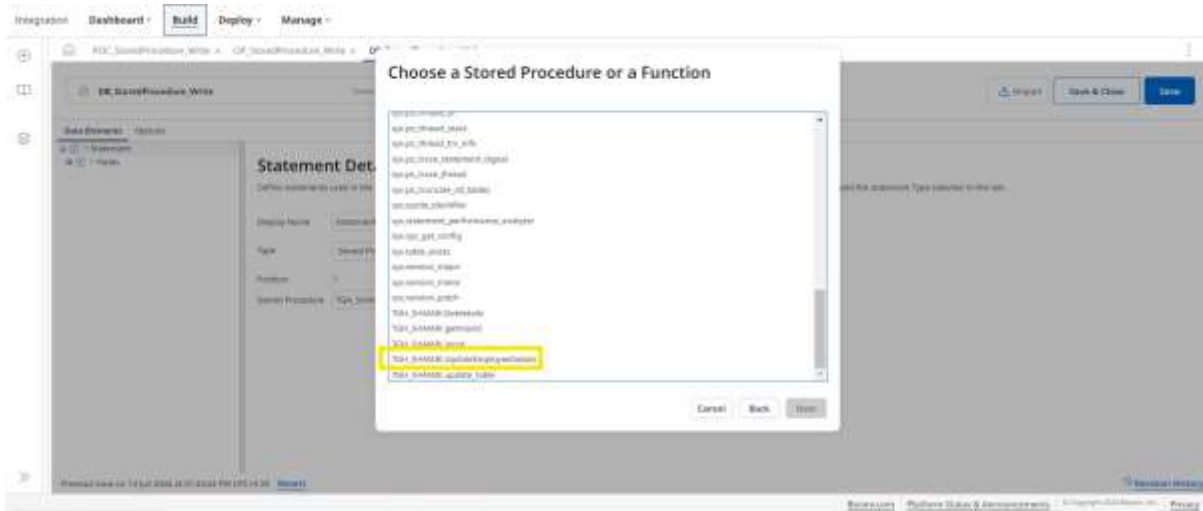
**STEP 18:** Click on the **Import**.



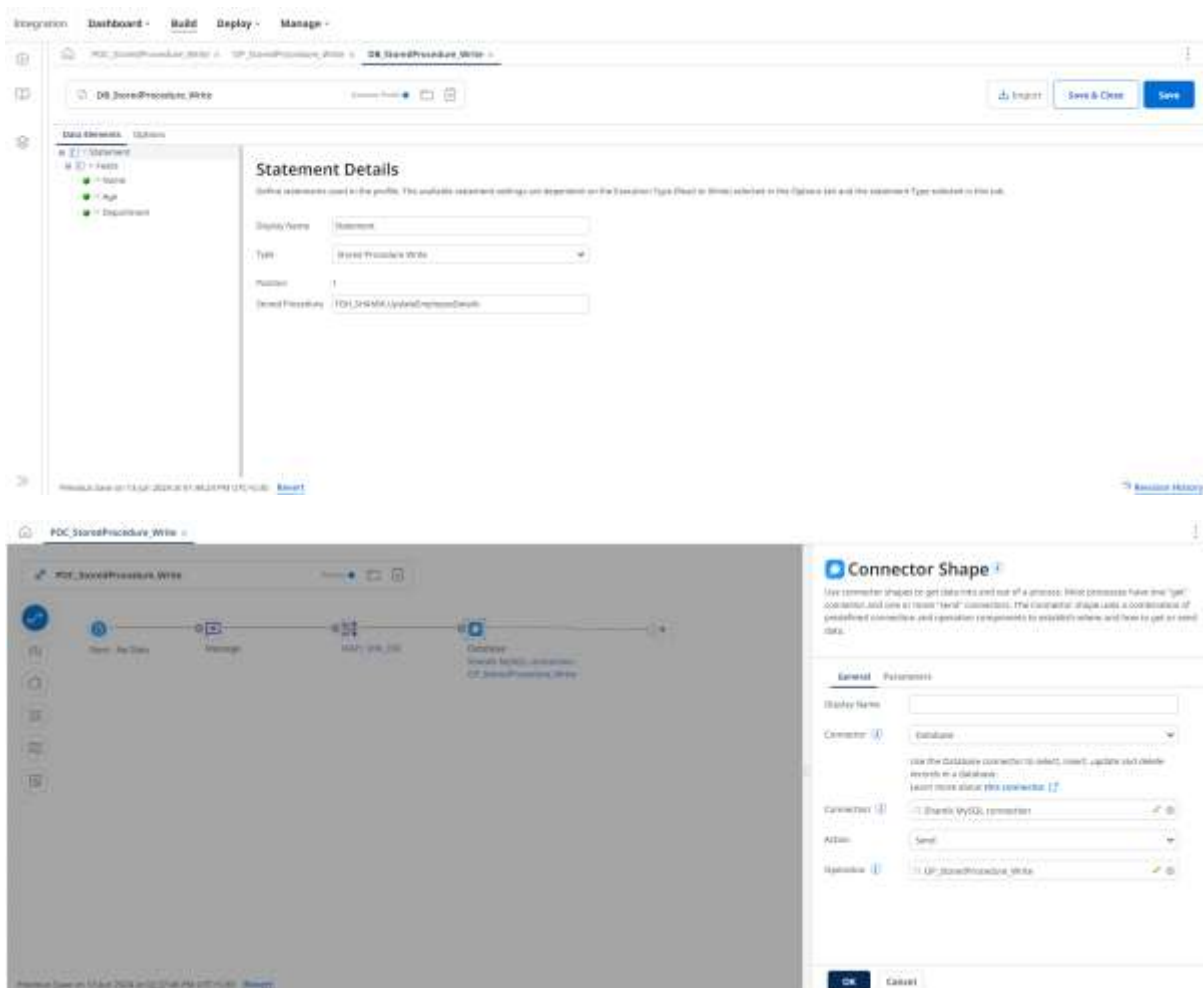
**STEP 19:** Choose the **Atom** in Browse In where the database is installed and select the connection. (Same connection created in Step 11) Click on **Next**.



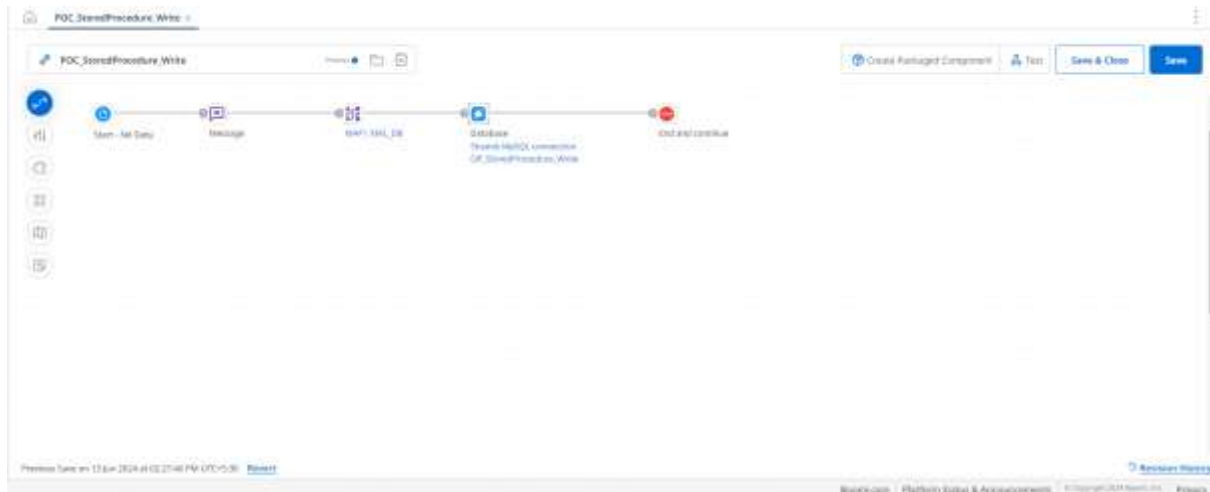
**STEP 20:** Select the **stored procedure** which you have created in the database.



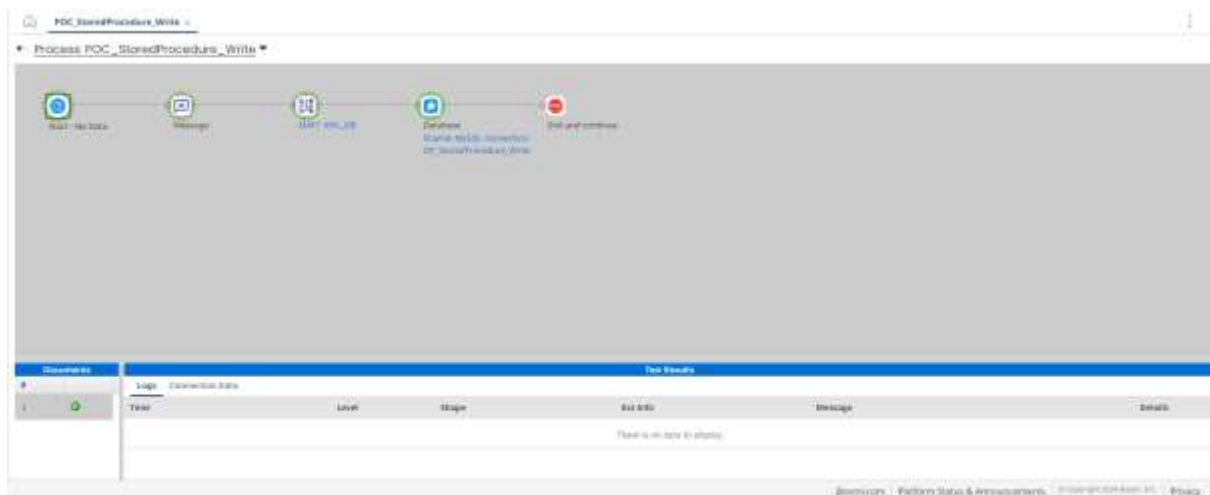
**STEP 21:** It will create a profile and click on **Save & Close**.



## STEP 22: Take Stop Shape.

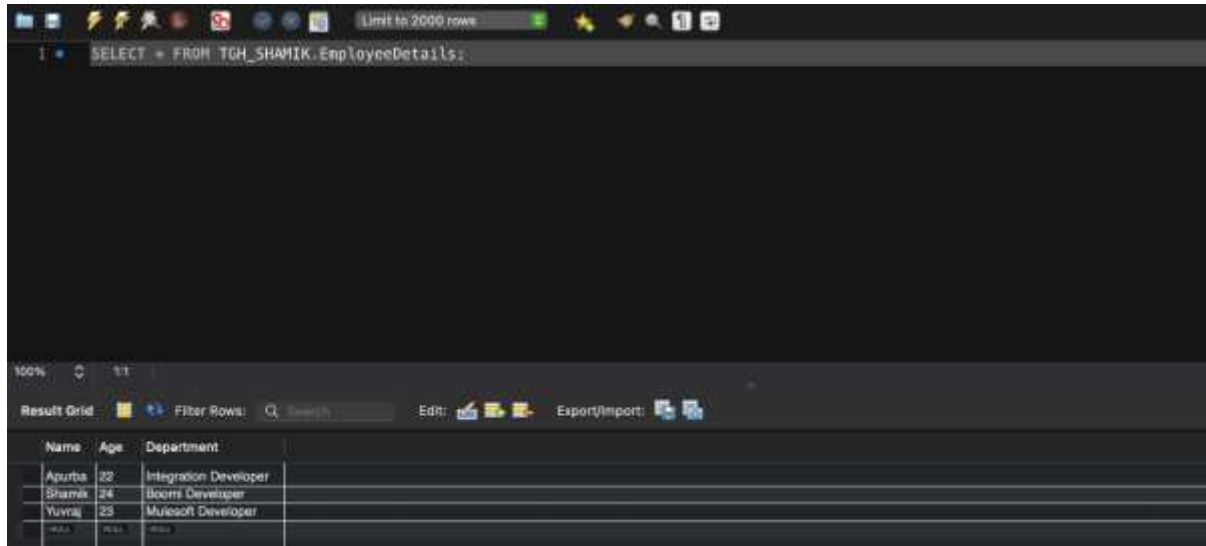


## STEP 23: Click on Test. Select the Atom and click OK.



**STEP 24:** Check the database by running the query.

**Query:** `SELECT * FROM <Schema_name>.<Table_name>;`





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We're committed to enhancing business processes and solving problems through our integration expertise.



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