TGH

Making Integrations Simpler

Implementation of Stored procedure while writing in BOOMI

Author
Shamik Roy Chaudhury

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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

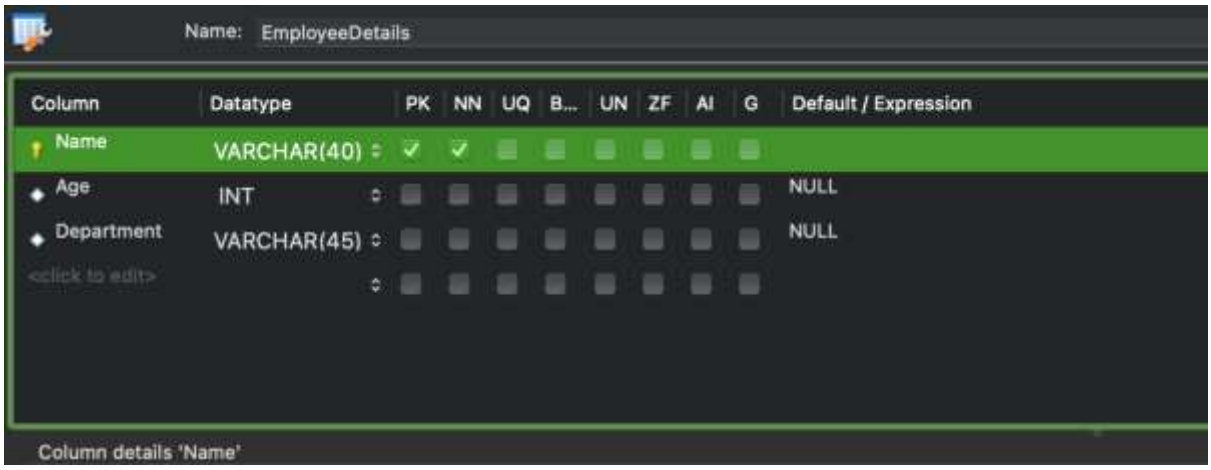
1. **Performance**: Since stored procedures are precompiled, they execute faster than individual SQL statements. The database server can optimize and cache the execution plan.
2. **Maintainability**: Encapsulating logic in stored procedures makes it easier to update and maintain without affecting application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

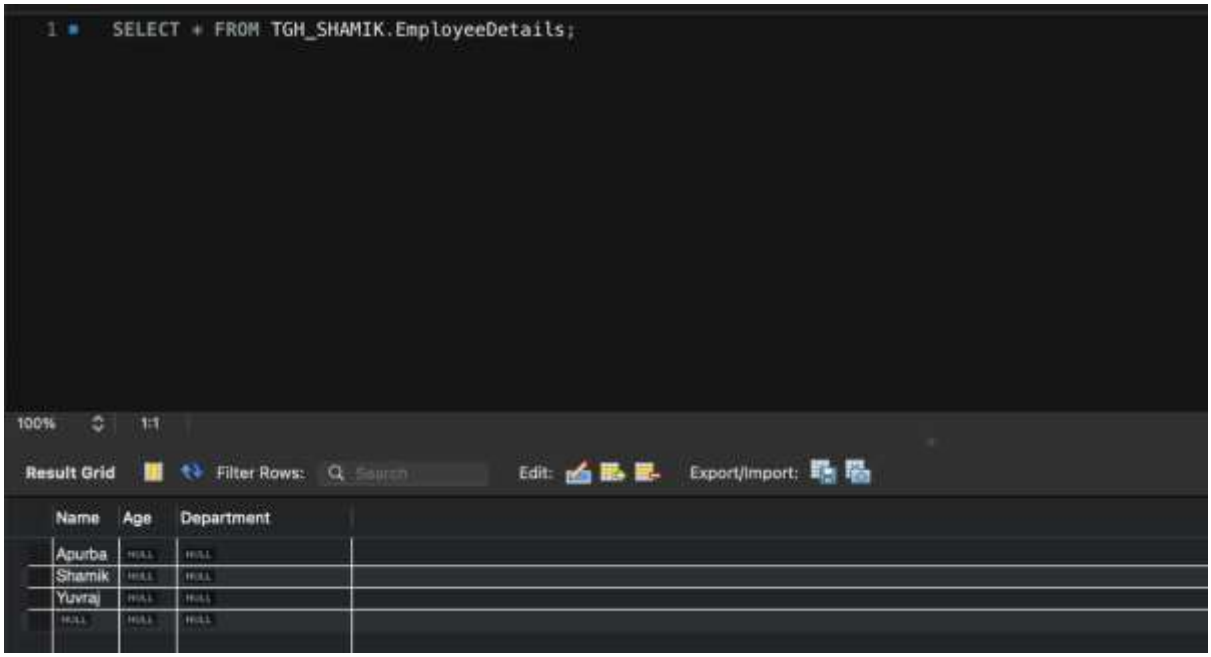
Types of Parameters in Stored Procedures

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

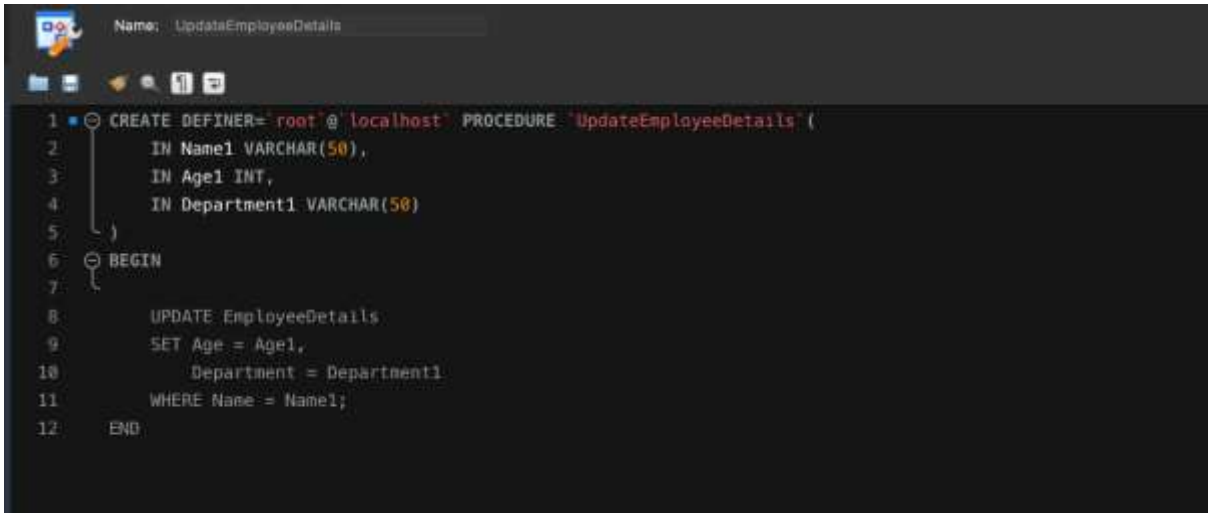
1. **IN Parameters**: These are input parameters that allow the caller to pass values into the stored procedure.
2. **OUT Parameters**: These are output parameters that allow the stored procedure to pass values back to the caller.
3. **INOUT Parameters**: These parameters can both receive input and return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

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



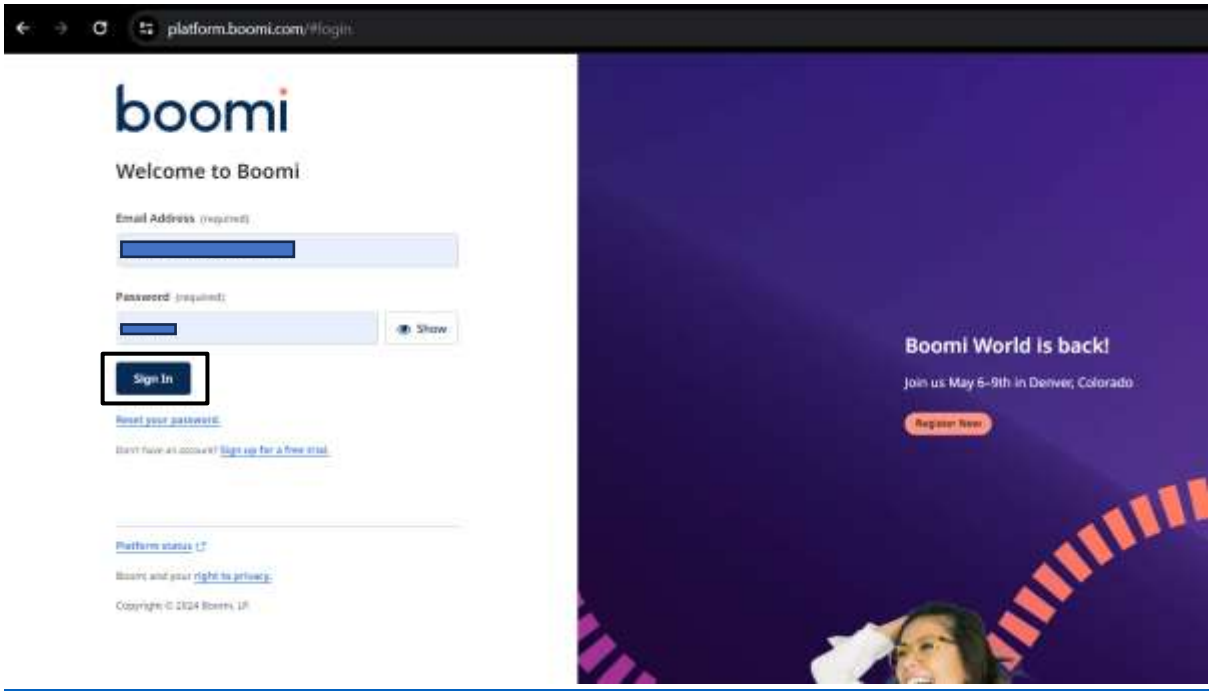


STEP 2: Create a stored procedure in the database.



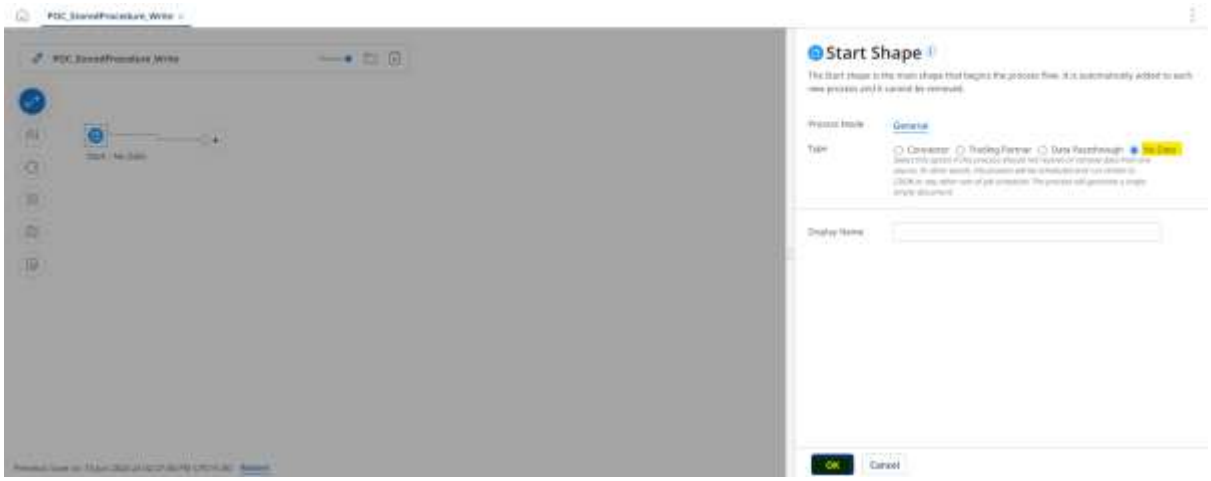

```
CREATE DEFINER=`<username>`@`<hostname>` PROCEDURE
`UpdateEmployeeDetails`(
   IN Name1 VARCHAR(50),
   IN Age1 INT,
   IN Department1 VARCHAR(50)
)
BEGIN    UPDATE <table_name>
   SET Age = Age1,
       Department = Department1
   WHERE Name = Name1;
END
```

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



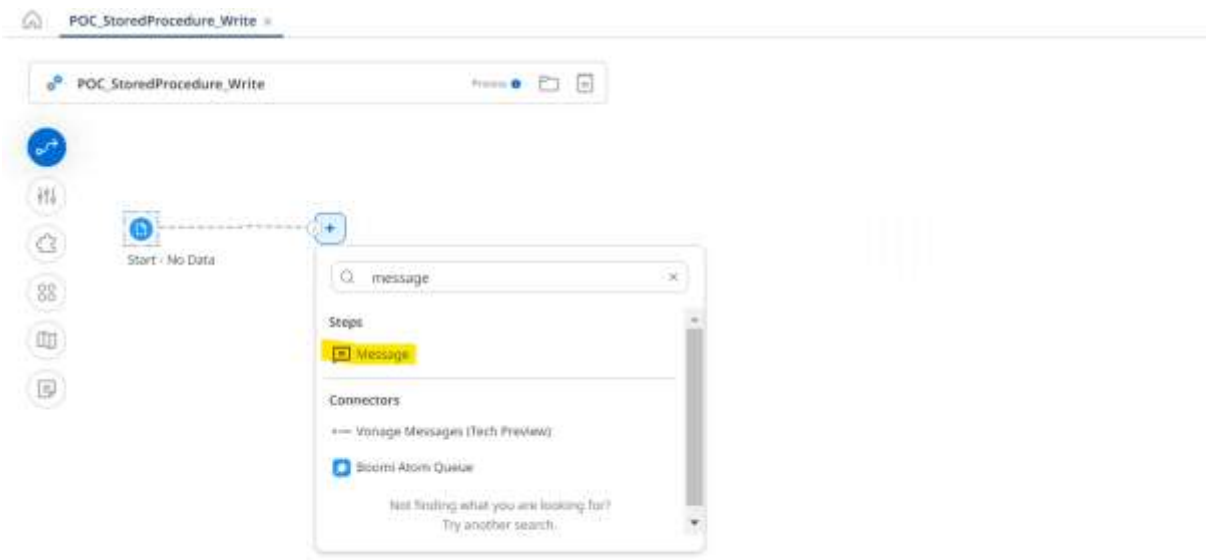
STEP 4: Click on the (+) sign to create a new component **Process**.

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

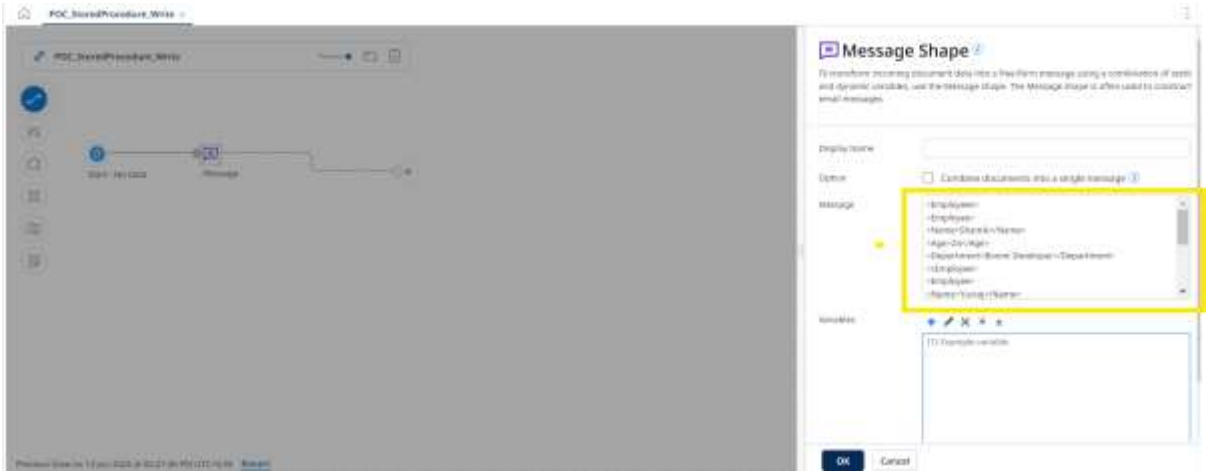


STEP 6: Now, we will provide the XML data through message shape. Click on the (+) beside the Start shape and choose Message shape.

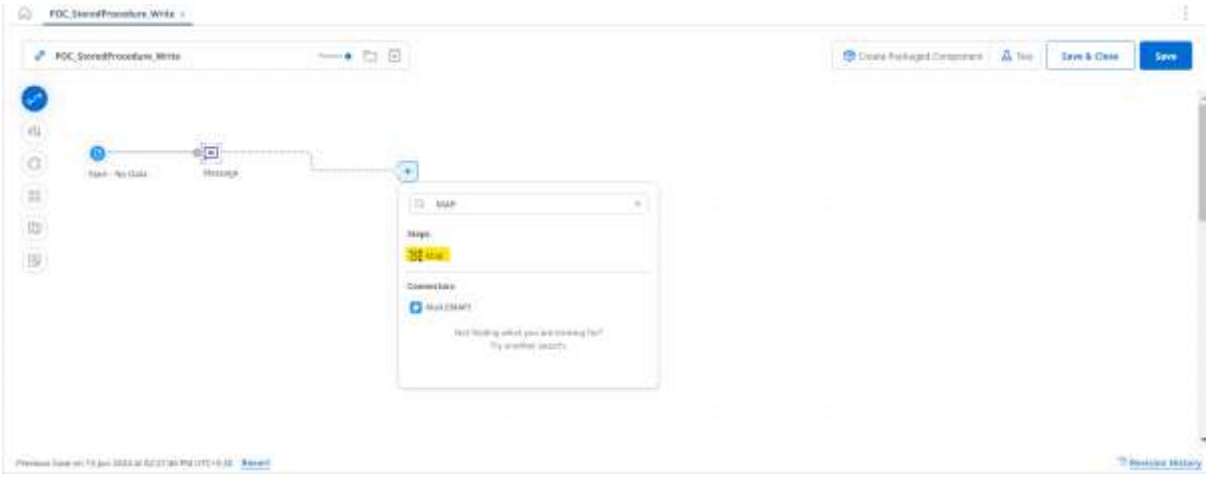
```
<Employees>
    <Employee>
        <Name>Shamik</Name>
        <Age>24</Age>
        <Department>Boomi Developer</Department>
    </Employee>
    <Employee>
        <Name>Yuvraj</Name>
        <Age>23</Age>
        <Department>Mulesoft Developer</Department>
    </Employee>
    <Employee>
        <Name>Apurba</Name>
        <Age>22</Age>
        <Department>Integration Developer</Department>
    </Employee>
</Employees>
```



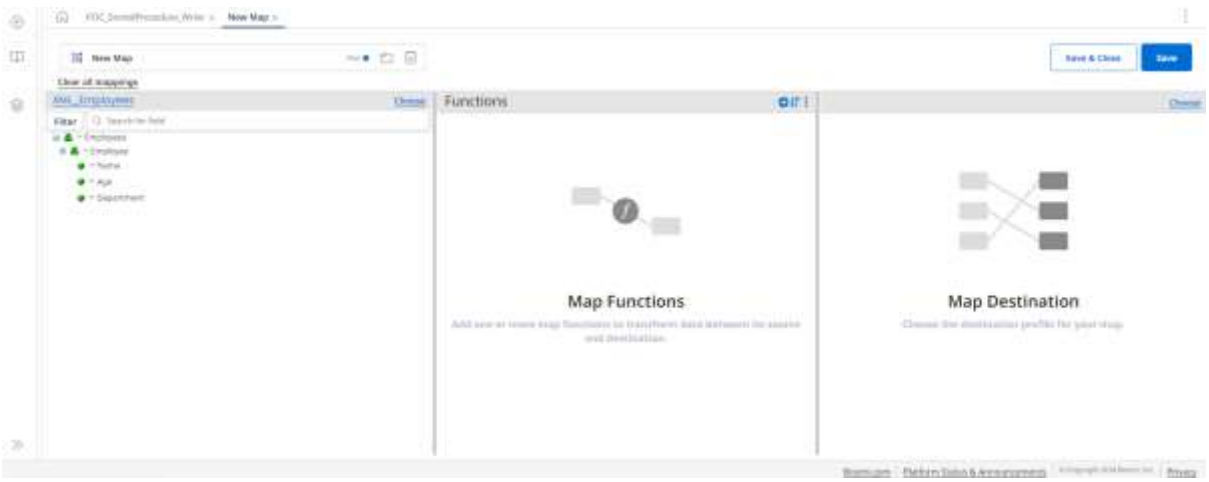
STEP 7: Put the file in message shape and click **OK**.



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



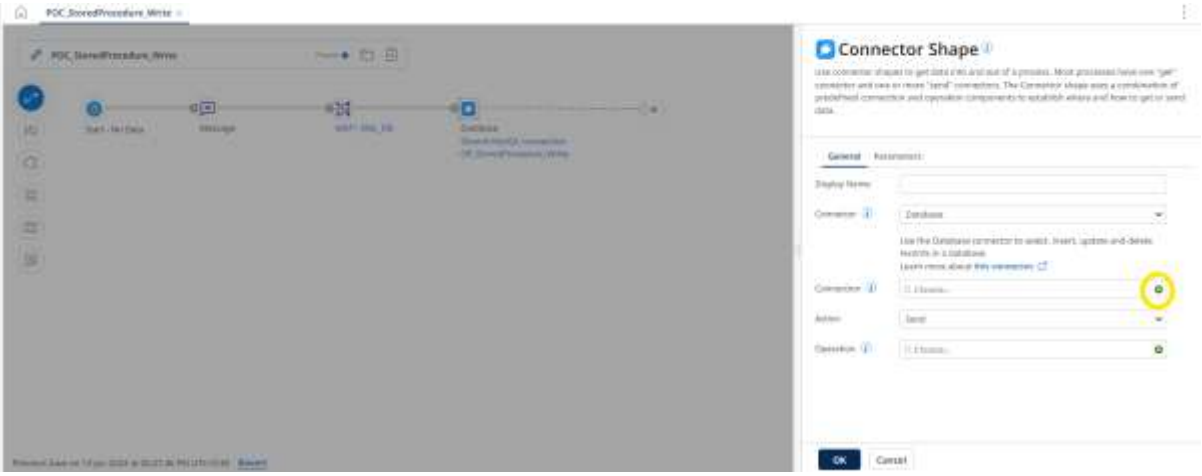
STEP 9: Create one profile according to the data you are passing, choose the profile in the source of the map shape and keep the destination as empty as of now.



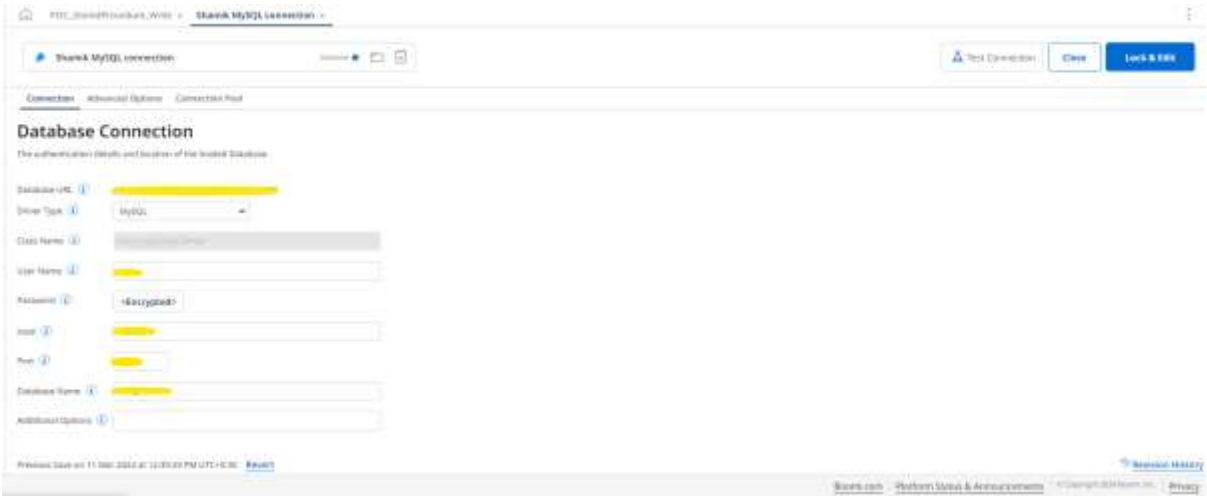
STEP 10: Click on Save & Close.

STEP 11: Take Database Connector.

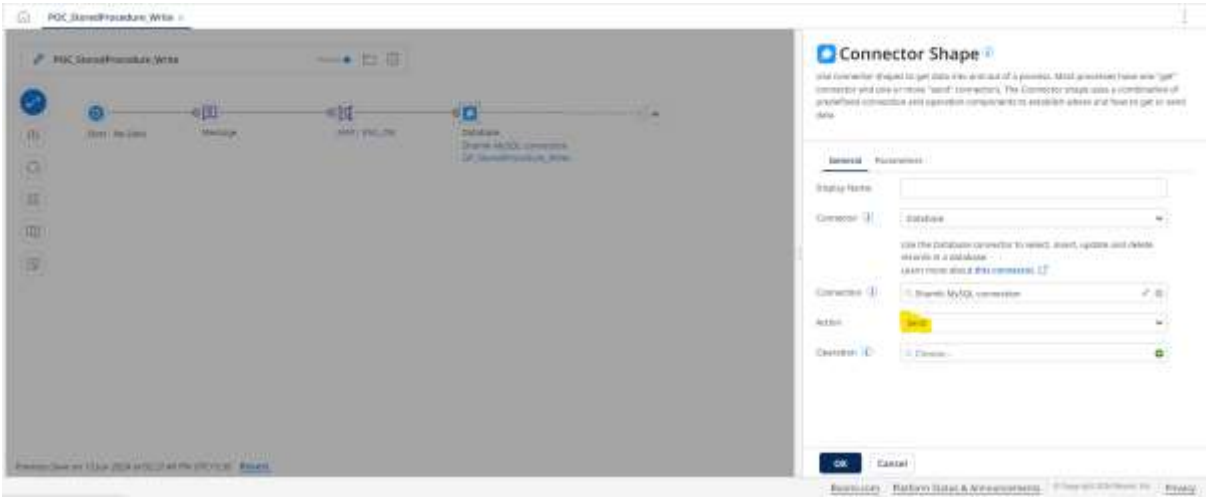
STEP 12: Create a Database **connection** by clicking on +.



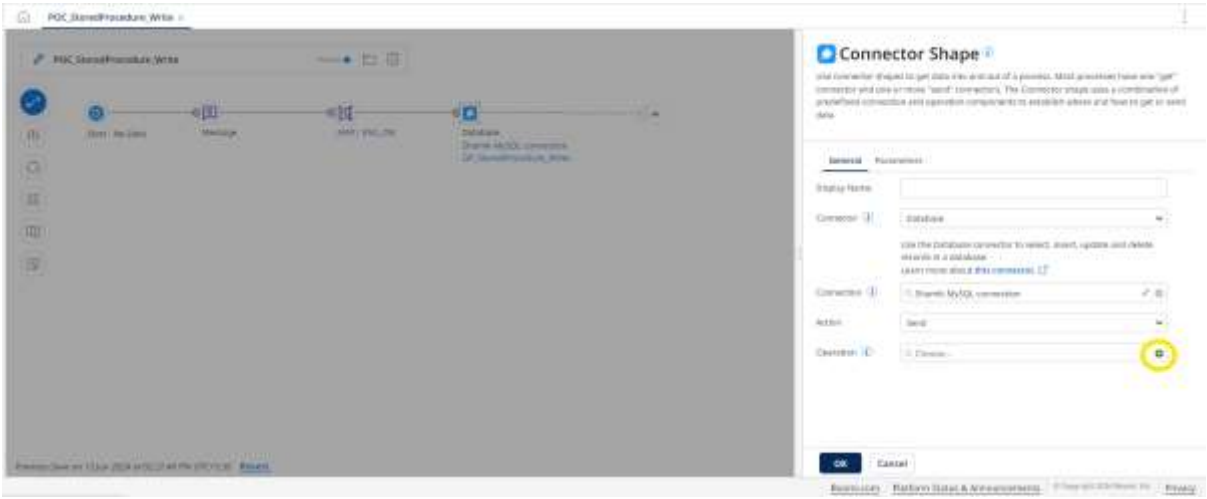
STEP 13: Provide the details like Database URL (you will get from MYSQL workbench), Username, Password, Host, Port, and Database Name (Schema Name). Then click on Save & Close.



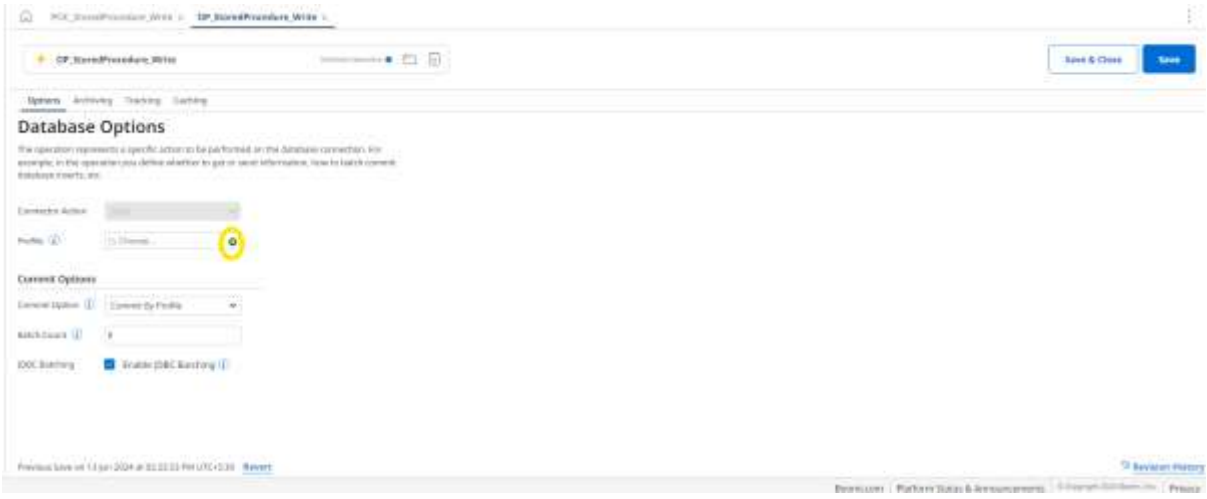
STEP 14: Choose the action as **Send**.



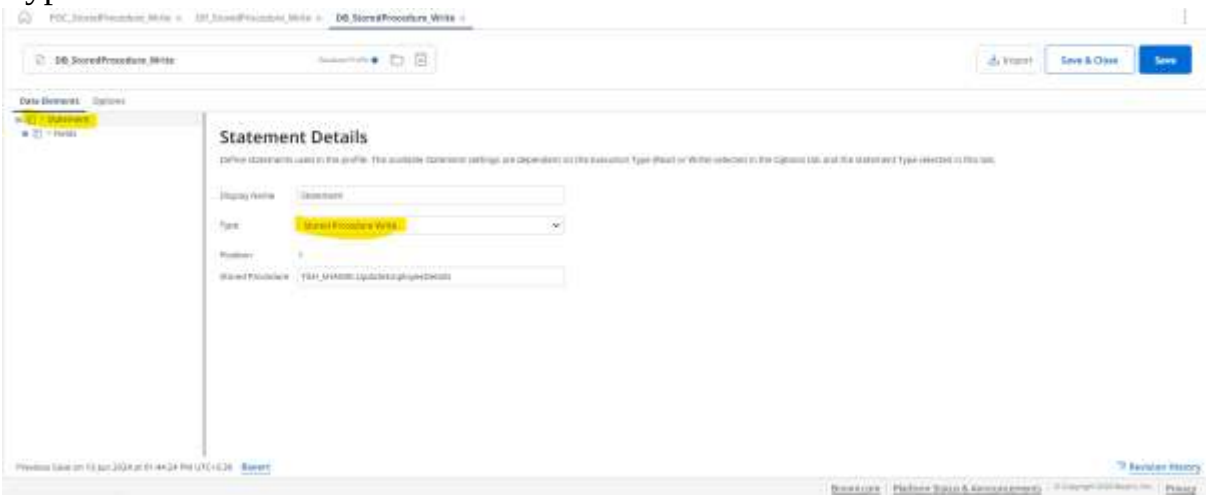
STEP 15: Create one **operation** by clicking on +.



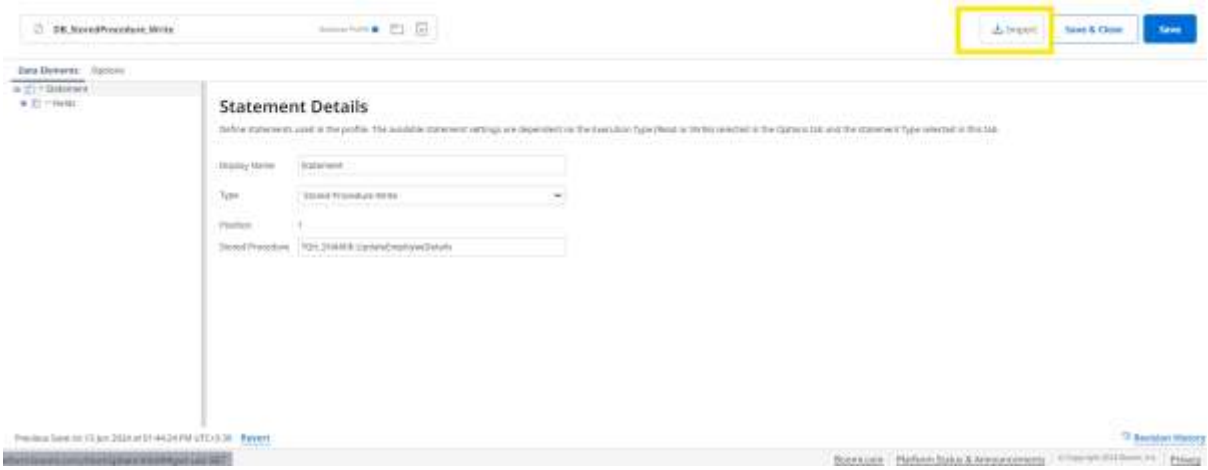
STEP 16: Create a database **profile** in the operation by clicking +.



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

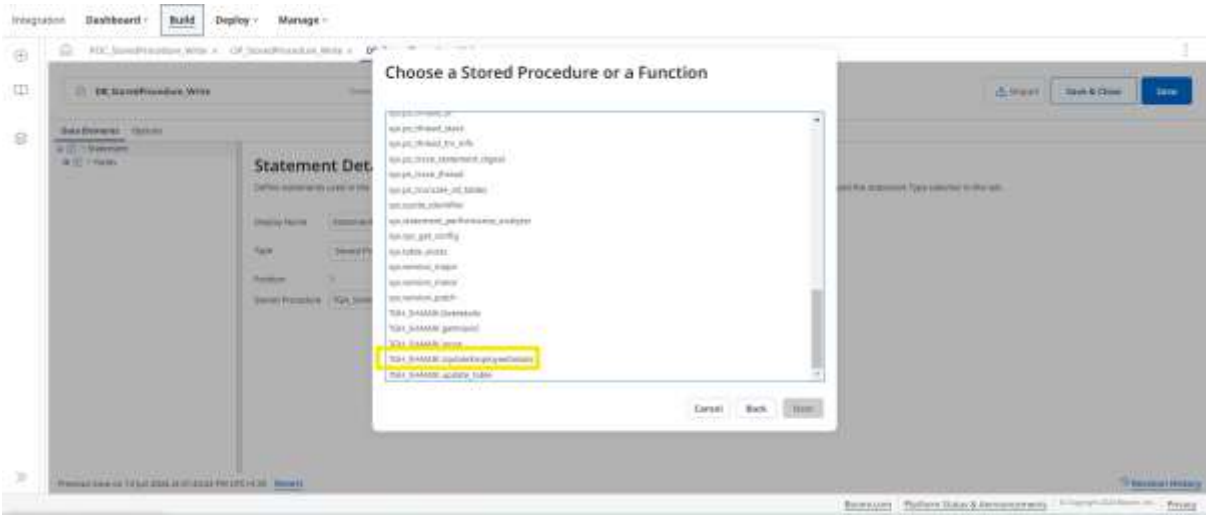


STEP 18: Click on the **Import**.

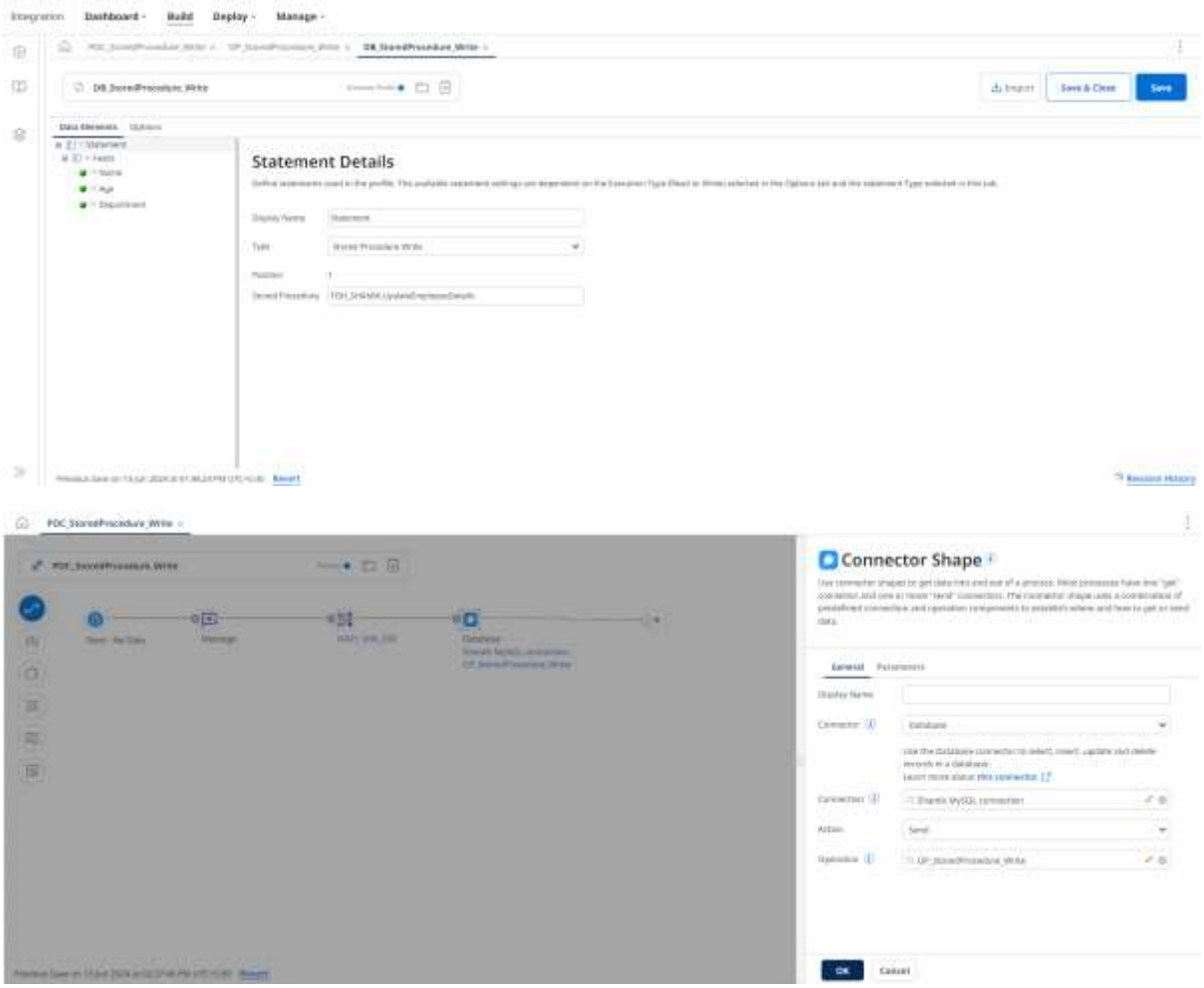


STEP 19: Choose the **Atom** in Browse In where the database is installed and select the connection. (Same connection created in Step 11) Click on **Next**.

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

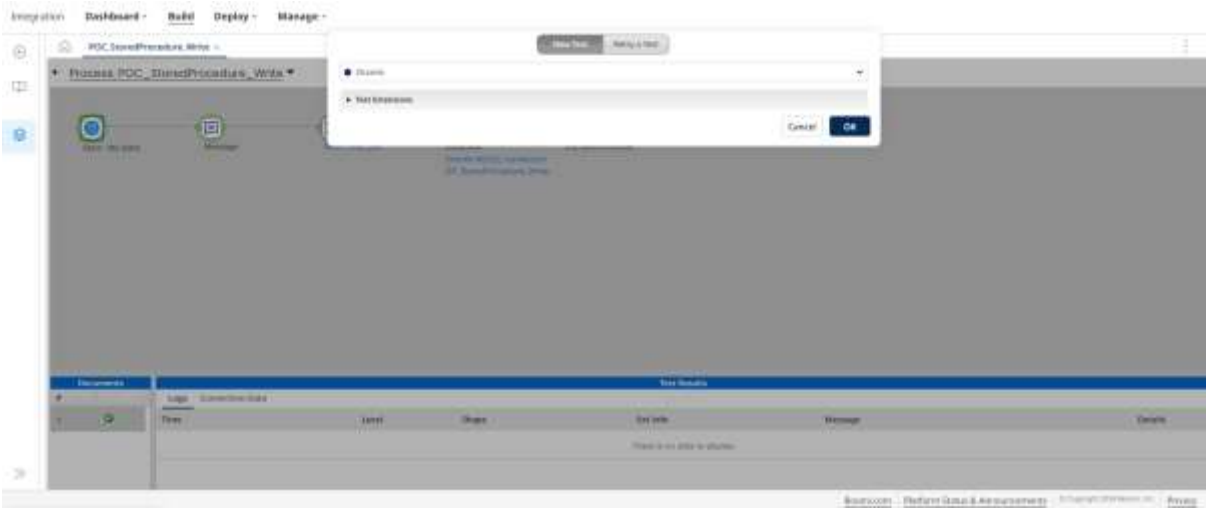


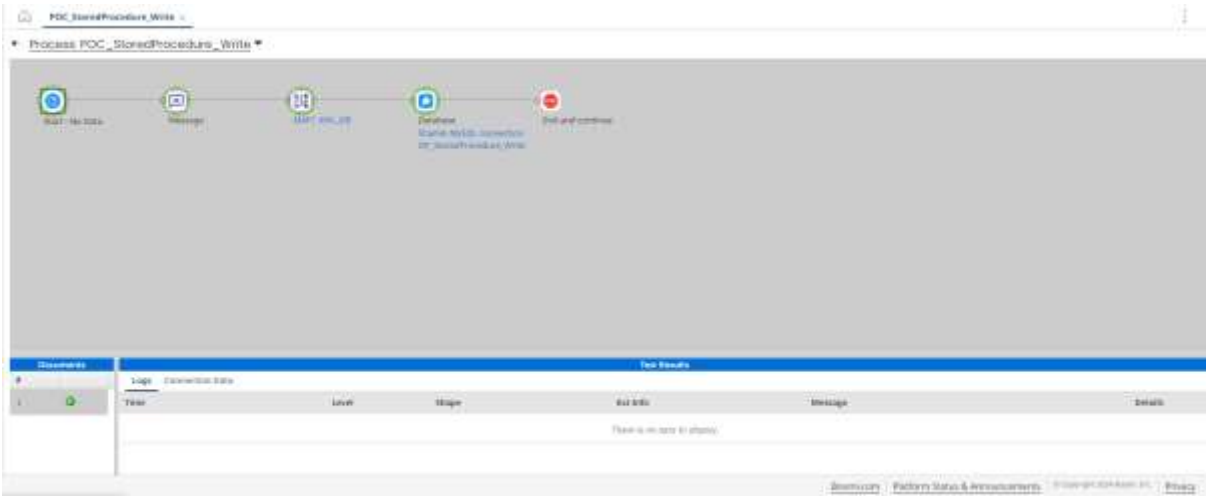
STEP 21: It will create a profile and click on **Save & Close**.



STEP 22: Take **Stop** Shape.

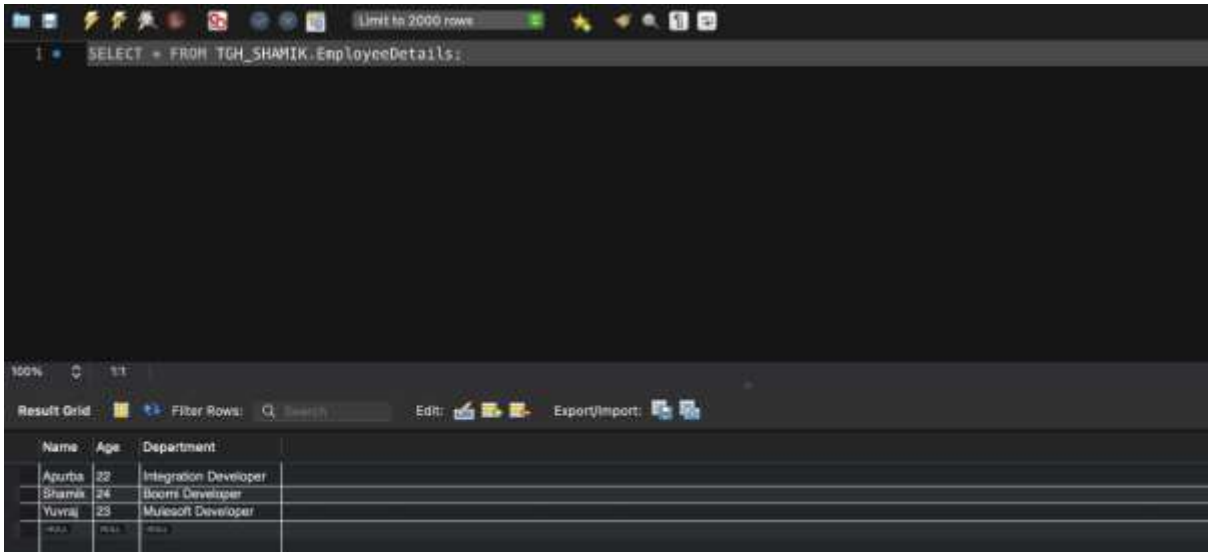
STEP 23: Click on **Test**. Select the Atom and click **OK**.





STEP 24: Check the database by running the query.

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



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At TGH, we specialize in driving digital transformation through seamless Integration Technologies.

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Email address
connect@techygeekhub.com

Phone number
+ 011-40071137
+ 91-8810610395

Our offices

Noida Office
iThum
Plot No -40, Tower A,
Office No: 712,
Sector-62, Noida,
Uttar Pradesh, 201301

Hyderabad Office
Plot no: 6/3, 5th Floor,
Techno Pearl Building,
HUDA Techno Enclave,
HITEC City, Hyderabad,
Telangana 500081