Setup IBM i Connection to Salesforce

Configuring RDBConnect: A Step-by-Step Guide to Establishing a Successful Connection

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1. Introduction

RDBConnect streamlines data transfers between databases on your IBM i system and external databases through JDBC connectivity. This powerful software empowers businesses to seamlessly integrate data from various sources, unlocking new possibilities for analysis and collaboration. Excitingly, RDBConnect now features a native connection to Salesforce, opening up a world of opportunities for streamlined data sharing and enhanced business intelligence between these two platforms. This integration will undoubtedly revolutionize how businesses leverage their data in the future, driving greater efficiency and informed decision-making.

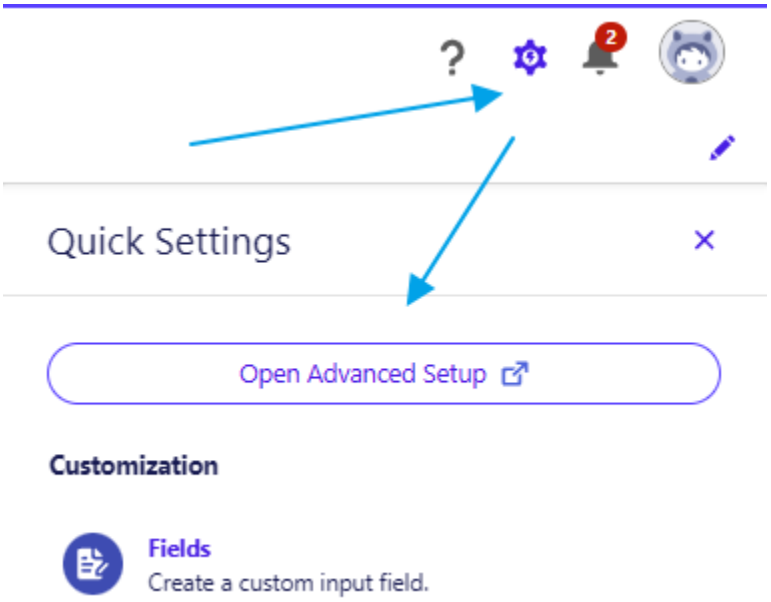
2. Requirements

RDBConnect software must be running on a compatible IBM i system with a minimum version of V6R1M0 or above. A valid Java JDK path must be configured using the RDBJVMPATH DTAARA, and the system must have the necessary permissions and security settings in place. Additionally, a JDBC driver compatible with Salesforce must be installed and updated using the RDBDRIVERS command. The RDBCFG command can then be used to configure the remote database connection, including specifying the necessary connection details such as the User ID, Password, IP Address, and Port. Furthermore, the Port Test feature can be used to ensure the selected port is not blocked.

3. Setup a Salesforce connected Application to connect from RDBConnect

3a. Setup a Connected App

1. Go to your quick settings gear icon next to your profile > Select “Open Advance Setup”



2. On the left hand pane go to Apps under PLATFORM TOOLS
3. Click on App Manager
4. On the upper left hand corner click on the “New Connected App”
5. Click on the “Create a Connected App” > Continue
6. Name your Connected App “RDBConnect5”
7. Add your Contact Email address
8. Enable OAuth Settings by checking the box
9. Enable for Device flow
10. Add the following callback URL
11. http://localhost:55555/Callback copy this and replace the port number through 55559
12. Select the following OAuth scopes to define permissions for the connected app
13. Manage user data via APIs, Manage Data Cloud profile data, perform ANSI SQL queries on Data Cloud, Perform request at any time
14. Click SAVE at the bottom of the form

3b. Change the connected app settings

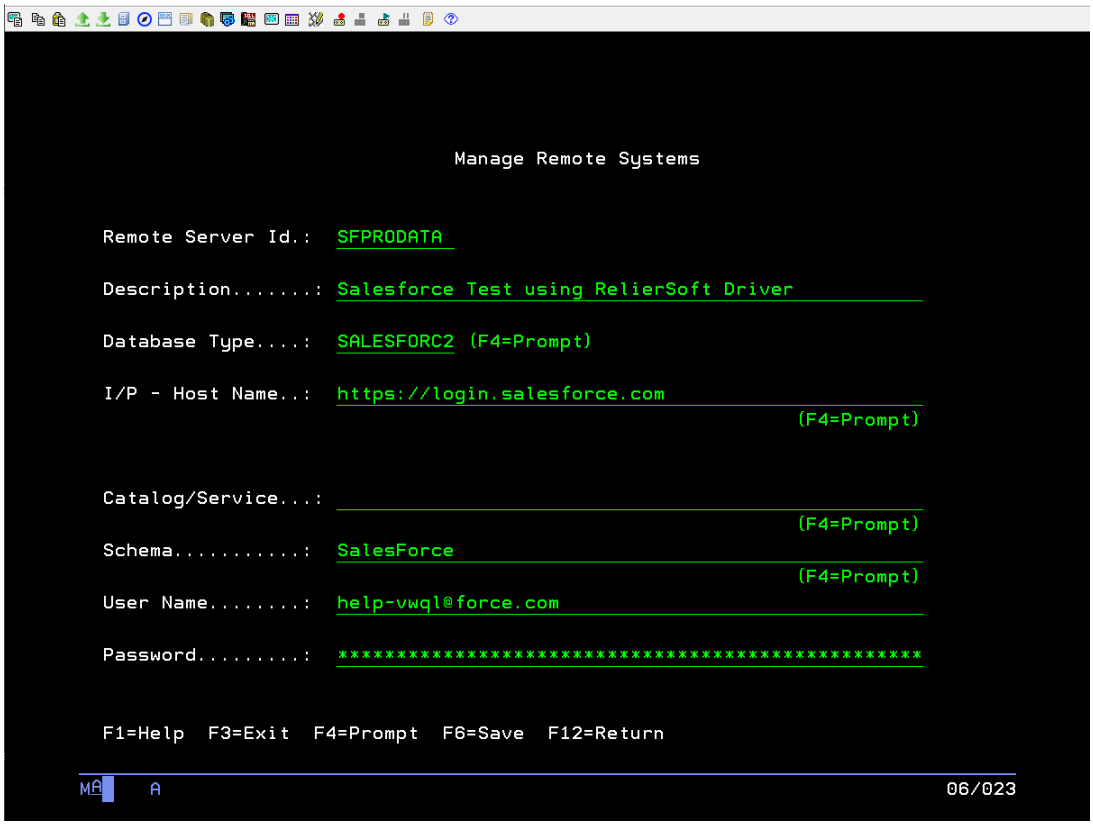
1. On the left pane click on Manage Connected Apps and select Edit “RDBConnect5”
2. Change the IP Relaxation to “Relax IP Restrictions” > click on SAVE

3c. Allow network Access

1. On the left pane select Security > Network Access
2. Click the “New” Button
3. Add you IBM I IP Address range > click SAVE

4. Configure RDBConnect Connection on IBM i

On the IBM I, run command RDBMNU option 1 or use Command RDBCFG to go directly to your connection configuration screen.



Specify the following.

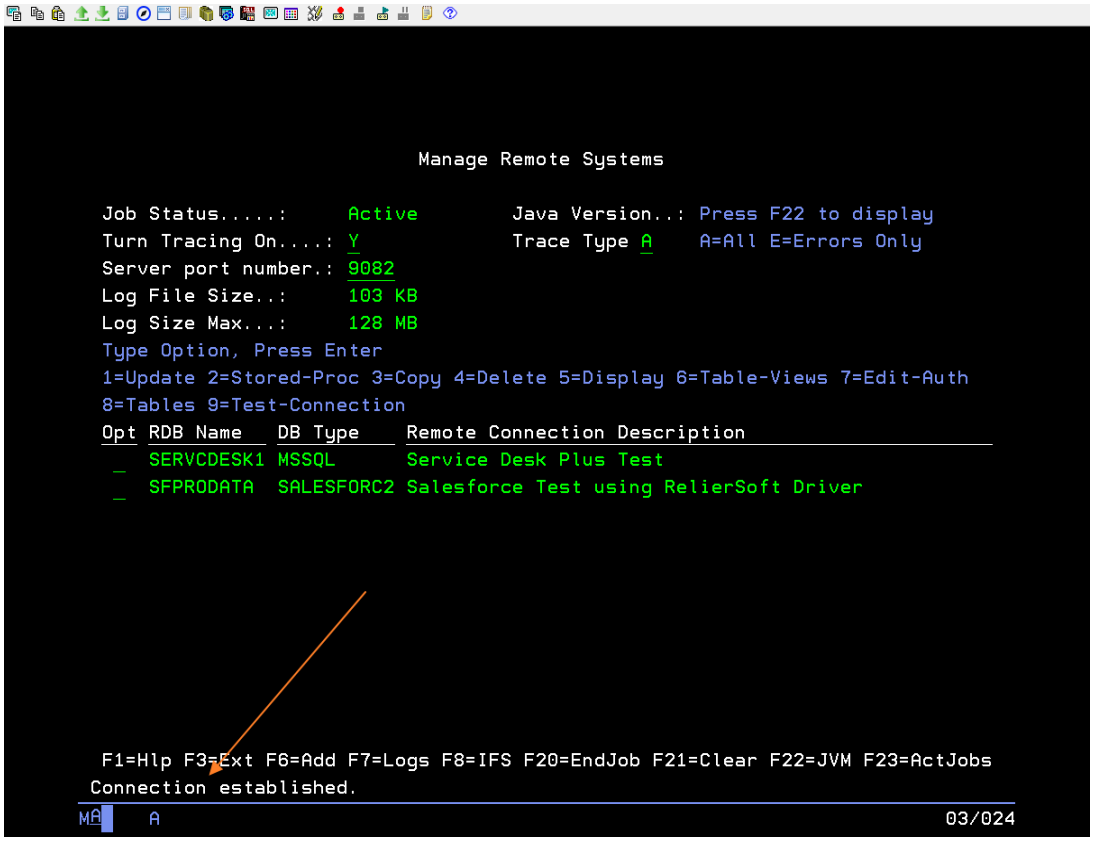
1. Remote Server ID
2. Description for your connection
3. Database Type (SALESFORC2). Use F4 to prompt the list of database types
4. Schema name (Salesforce)
5. User Name (User ID)
6. Password
7. Press F6 SAVE to complete your connection

5. Use RDBDrivers command to include the new drivers

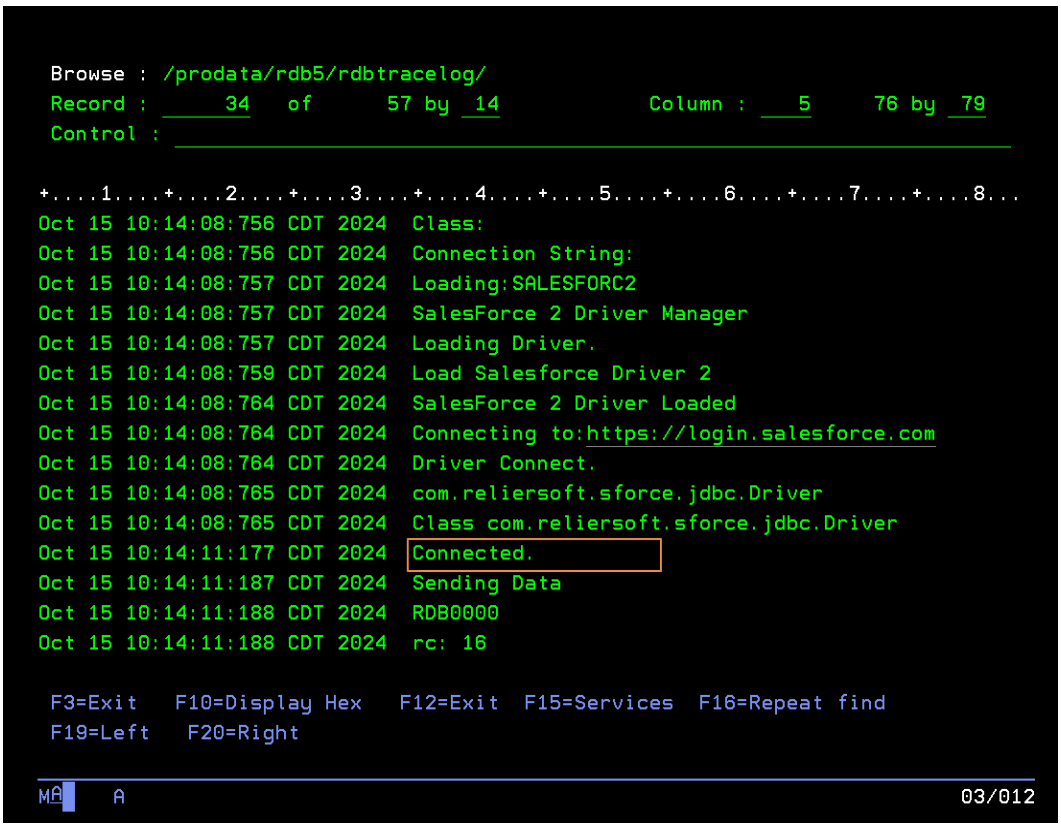
In order to connect from IBM I you must include the JDBC driver included in the '/prodata/rdb5' directory in IFS called sforce-jdbc.zip.

Use option 19 to add the driver and then restart RDBConnect.

Once you've re-started RDBConnect, use option 9 to connect to Salesforce.



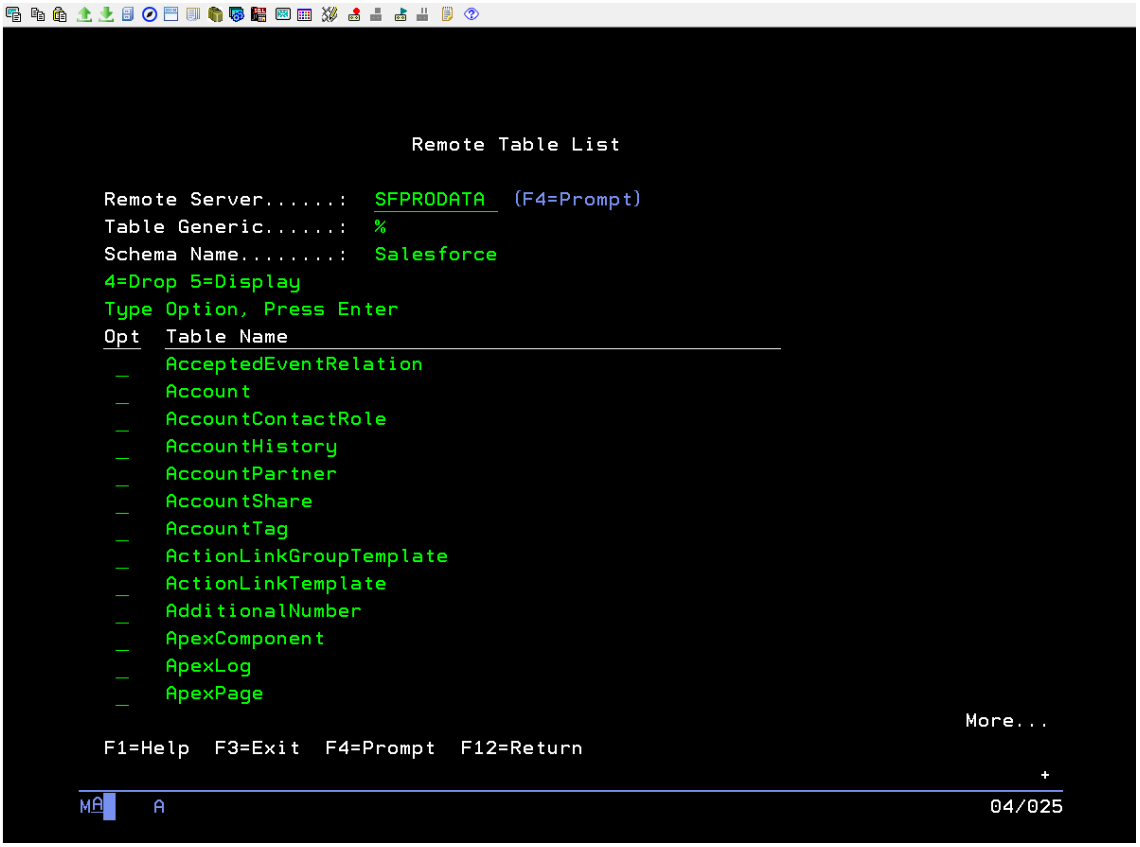
6. Tracelogs and Java error logs



Check you tracelogs file to debug your initial connection.

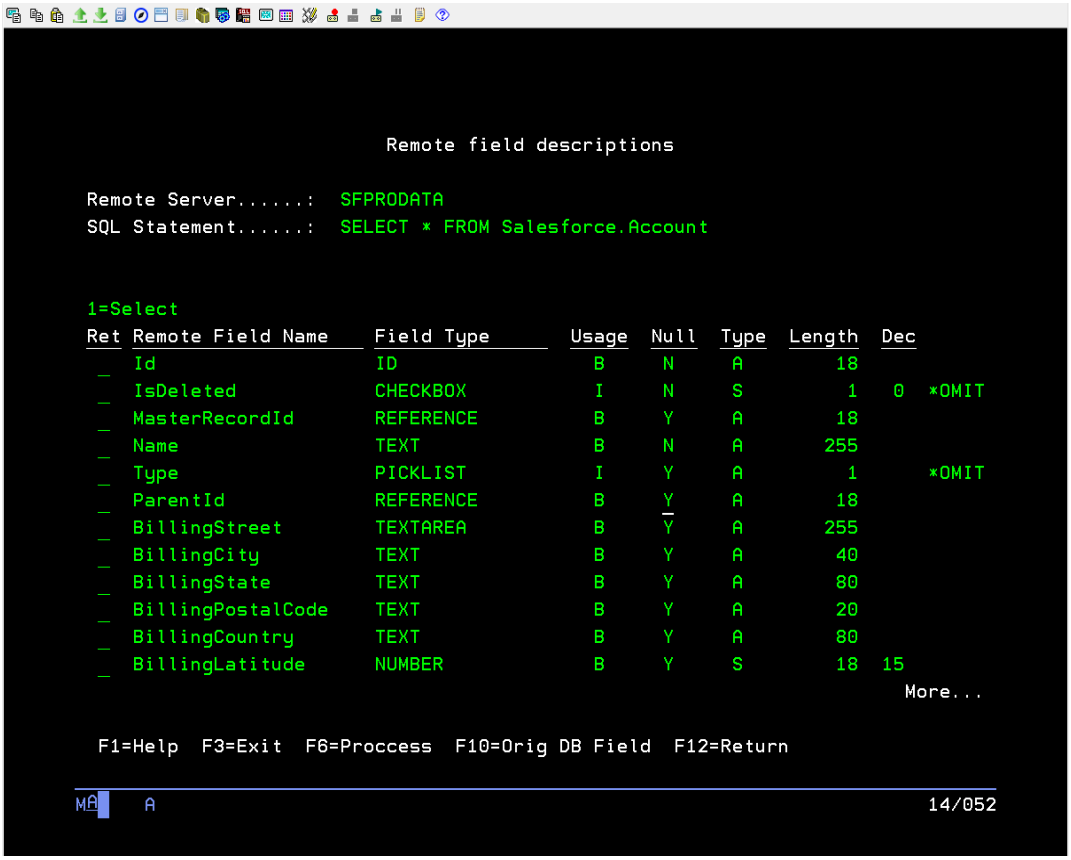
You can also view additional java errors written to RDBJavaLogs.log in IFS /prodata/rdb5.

7. Salesforce Tables view from IBM i



Screenshot of RDB Connect showing the list of tables from the remote database: (SalesForce), RDBTABLES Displays Existing Tables on Remote Database.

8. Salesforce - RDBFields view from IBM i



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                          Remote field descriptions

Remote Server......:  SFPRODATA
SQL Statement......:  SELECT * FROM Salesforce.Account


1=Select
Ret Remote Field Name     Field Type          Usage  Null  Type  Length  Dec
 _  Id                    ID                    B     N     A       18
 _  IsDeleted             CHECKBOX              I     N     S        1    0  *OMIT
 _  MasterRecordId        REFERENCE             B     Y     A       18
 _  Name                  TEXT                  B     N     A      255
 _  Type                  PICKLIST              I     Y     A        1       *OMIT
 _  ParentId              REFERENCE             B     Y     A       18
 _  BillingStreet         TEXTAREA              B     Y     A      255
 _  BillingCity           TEXT                  B     Y     A       40
 _  BillingState          TEXT                  B     Y     A       80
 _  BillingPostalCode     TEXT                  B     Y     A       20
 _  BillingCountry        TEXT                  B     Y     A       80
 _  BillingLatitude       NUMBER                B     Y     S       18  15
                                                                    More...

 F1=Help  F3=Exit  F6=Proccess  F10=Orig DB Field  F12=Return

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Screenshot of RDB Connect showing field definitions from the remote Salesforce database using the RDBFIELDS command with the following SQL statement: STM('select * from Salesforce.Account')