Steps to create connection between AWS RDS and Power BI from scratch.

1. Install Power BI software from Microsoft Store, and login with the credentials provided by college.
2. Sign up on <https://aws.amazon.com/> using college credentials. Instance is available on trial basis for one year.
3. Create RDS Postgresql instance using the steps shown on <https://aws.amazon.com/getting-started/tutorials/create-connect-postgresql-db/>
4. On the configuration page of RDS instance, edit Inbound and Outbound rules to allow access from any IP. Link for the inbound and outbound page is available under Security Panel in Connectivity and security tab. Please check the screenshot below for more understanding.

A screenshot of a computer

Description automatically generated

1. Install PGAdmin software to access the AWS RDS Postgresql database from local machine. The software is available on <https://www.pgadmin.org/docs/pgadmin4/3.x/pgagent_install.html>
2. Open the PGAdmin application, a new tab will open in your browser automatically. Initially it will ask to enter a master password, which you need to insert on every new login attempt.
3. Click on Servers -> Create -> Server.
4. Enter details like Name, Comments etc in general tab.
5. The details available on the page from step are to be entered in connection tab. Endpoint in Hostname/address, Port in port, Username and Password of AWS RDS Database.
6. On clicking Save button, connection will be successful and database will be available on Left Panel of PGAdmin.
7. You can perform DDL operations such as CREATE, ULTER, DROP and DML operations such as CREATE, READ, UPDATE, DELETE on the tab itself.
8. Open Power BI application and click on Getdata -> Database -> Postgresql database. Enter credentials and try to login. It will show an error saying certificate is invalid. Below steps shows how to make connection successful.
9. Install ODBC Driver, click on System DSN tab -> Add -> Select Postgresql from the list. Enter details available on Step 4 and test the connection. Connection should be successful.
10. Download the AWS public key of instance from here <https://s3.amazonaws.com/rds-downloads/rds-combined-ca-bundle.pem>
11. Convert the pem file to PKCS#7/P7B certificate. It can be converted online using the link <https://www.sslshopper.com/ssl-converter.html>
12. Import the certificate to the trusted room certificate. The steps to import certificate are available on <https://www.sslsupportdesk.com/how-to-enable-or-disable-all-puposes-of-root-certificates-in-mmc/>
13. After successfully importing open Power BI, try step 12. Now you should be able to access the database and import required tables.

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