

SQL Developer is an IDE for working with SQL in Oracle databases. We'll be using SQL Developer to connect to Oracle's cloud database service.

## Configuring SQL Developer – JAVA Library

SQL Developer is written and runs on Java, so we need to make following change to SQL Developer config file, to point it to correct Java JDK library.

1. First, we need to find where Java Development Kit is installed on your system.

Mostly C:\Program Files\Java\jdk1.8.0\_101 for 64bit version and C:\Program Files(x86)\Java\jdk1.8.0\_101 for 32bit version

Note down the above path to JDK library

2. Open sqldeveloper config file in Notepad

~\sqldeveloper\sqldeveloper\bin\sqldeveloper.conf

3. Find below line in config file

```
1 IncludeConfFile ../../ide/bin/ide.conf
2
3 SetJavaHome ../../jdk
4
```

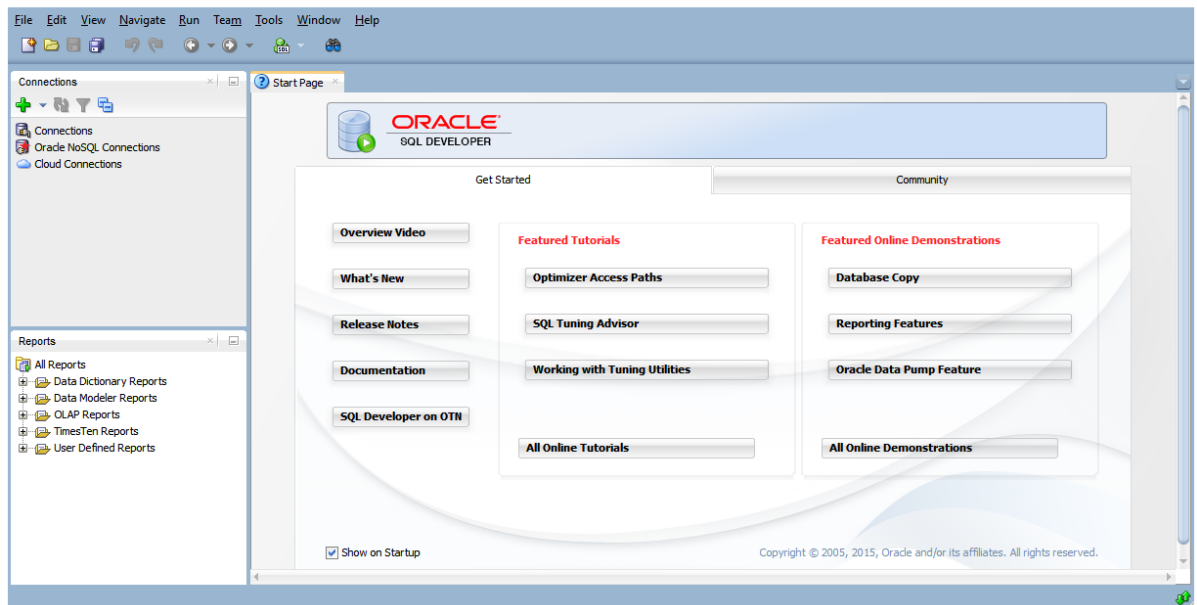
4. Replace “../../jdk” or any other path with the JDK path we noted in STEP 1.

```
1 IncludeConfFile ../../ide/bin/ide.conf
2
3 SetJavaHome C:\Program Files\Java\jdk1.8.0_101
4
```

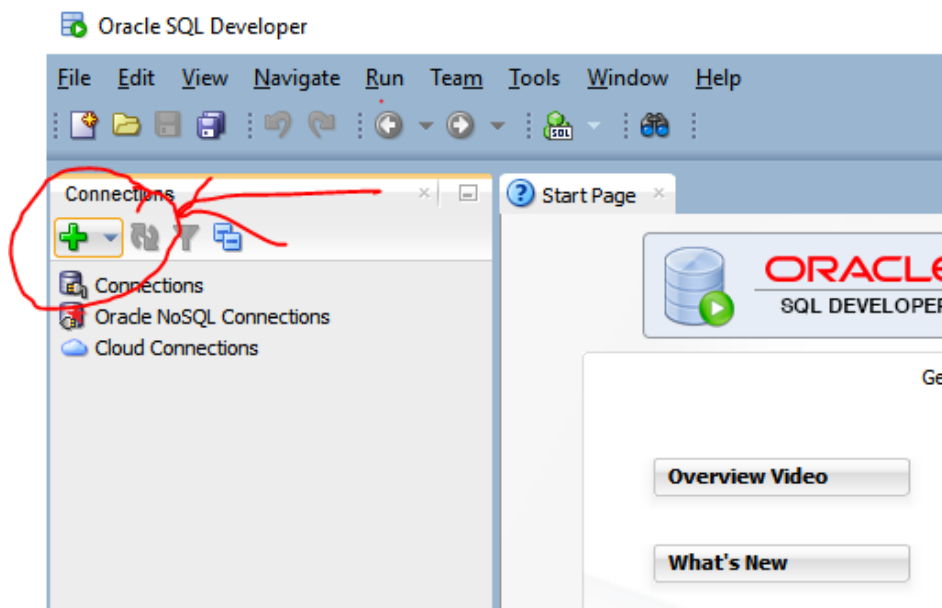
5. Save and close the config file

## Connecting to Cloud Database

1. Open sqldeveloper (~\sqldeveloper\sqldeveloper.exe)



2. Click + symbol to create new connection



3. In the New connection window, enter the details as follows –

Connection Name: connect<your BITS ID>

Follow this format **STRICTLY**. Example: connect2016H103022G

UserName: C##DBUSER001\_04

Password: DBUSER001\_04

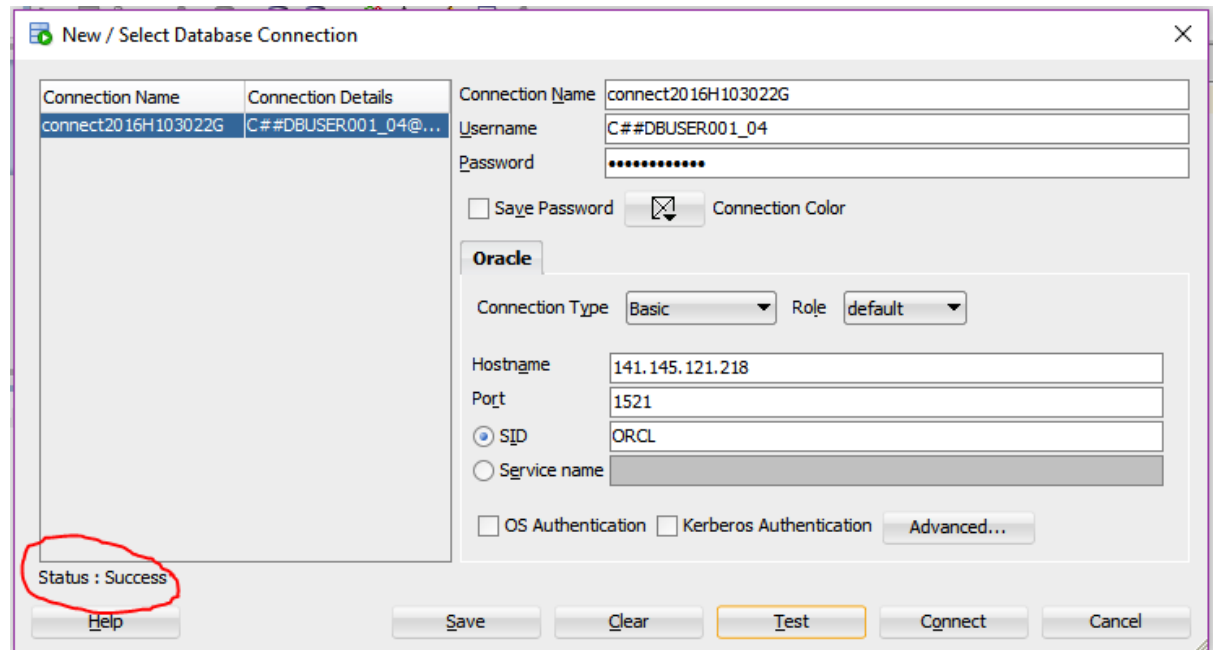
Connection Type: Basic

Role: Default

Hostname: 141.145.121.218

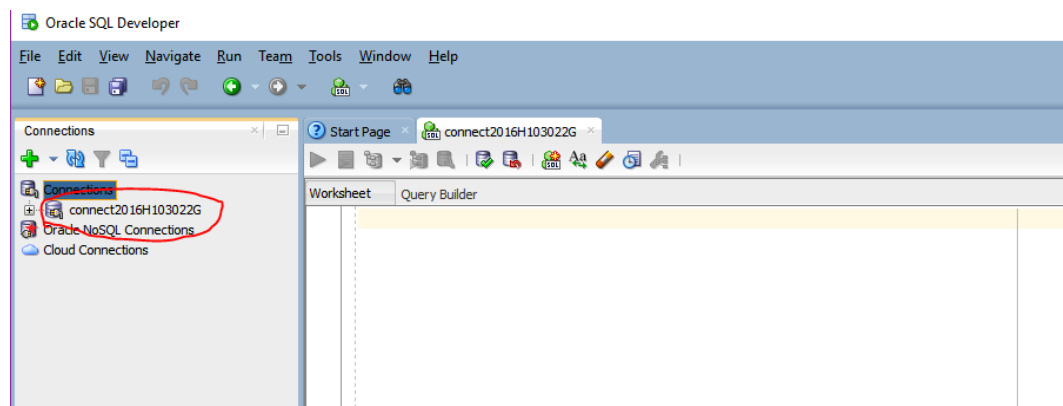
Port: 1521

SID: ORCL



Click on Test to see if the connection works. It'll show status as success on bottom left corner.

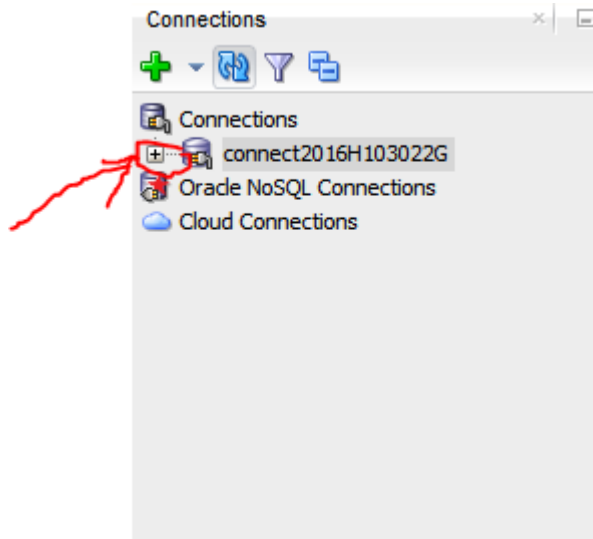
If successful click on 'Connect' to connect to cloud database. Now you're connected to Oracle cloud database service.



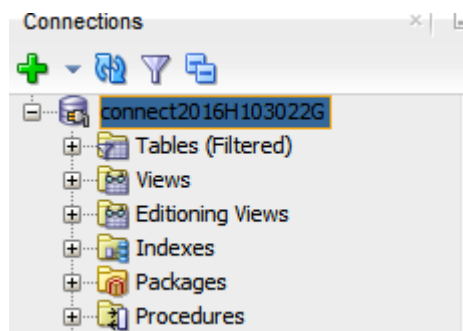
Note: You might get a warning about password expiry, ignore the warning.

## Creating Tables in SQL developer

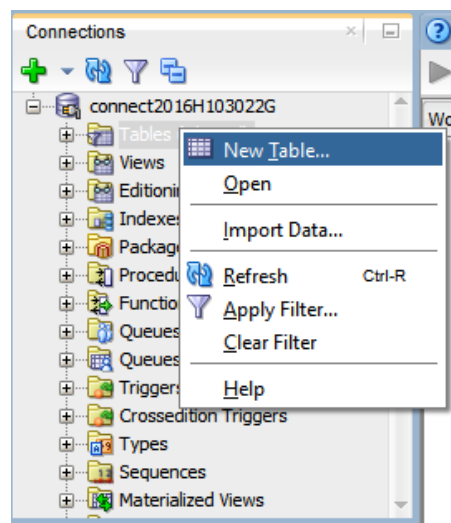
1. Click expand sign next connect<your id>



2. List of components on database will be displayed



3. Right click on table and select 'New table'



4. Enter the name of table in **BITS\_<system no>\_TABLENAME** format.

Example BITS\_350\_STUDENT

You **MUST** follow the given format while naming the tables. System no is the computer no allocated to you.

Add fields using + symbol and remove the fields using X symbol on top right corner. You can edit field names and attributes by clicking on corresponding values.

Schema: C##DBUSER001\_04

Name: BITS\_350\_STUDENT

Table DDL

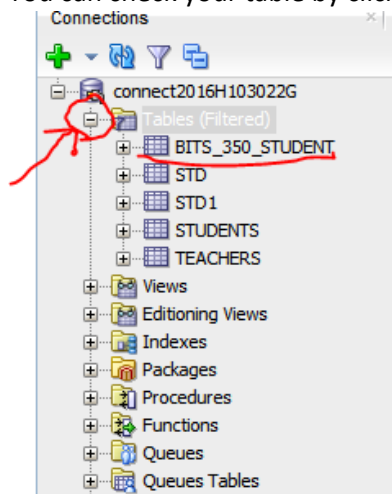
Columns: name

PK	Name	Data Type	Size	Not Null	Default	Comment
	ID	NUMBER		<input checked="" type="checkbox"/>		
	NAME	VARCHAR2	20	<input checked="" type="checkbox"/>		
	DEPARTMENT	VARCHAR2	3	<input checked="" type="checkbox"/>		

Help OK Cancel

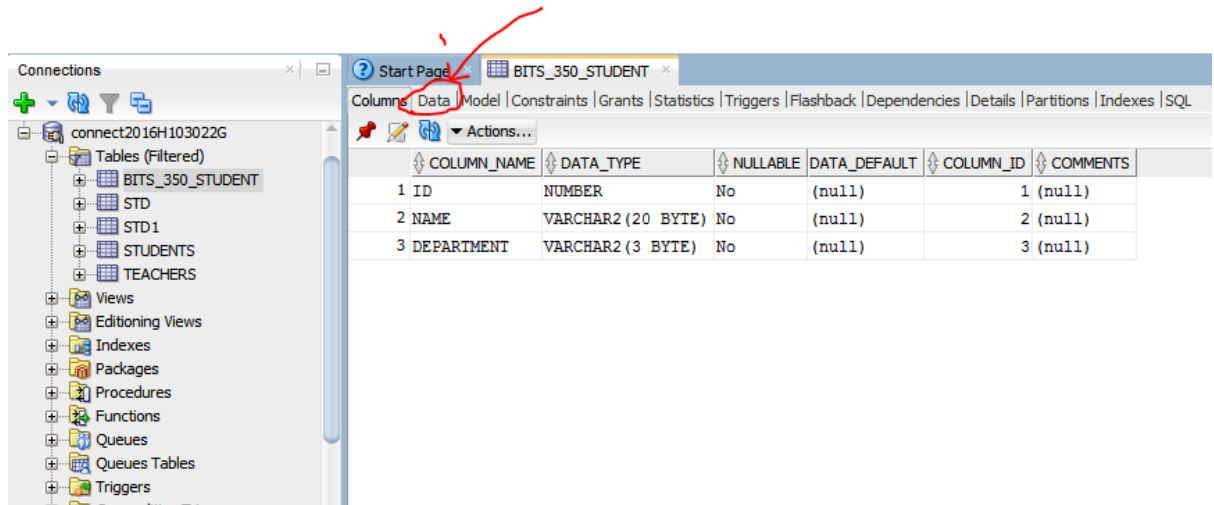
Click OK to create the specified table.

5. You can check your table by clicking expand sign beside 'Tables'

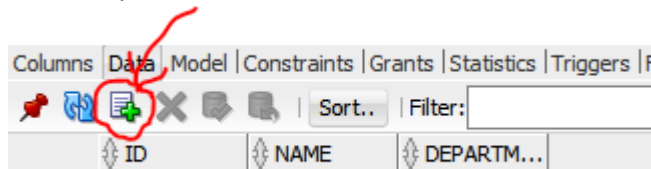


## Inserting values into tables

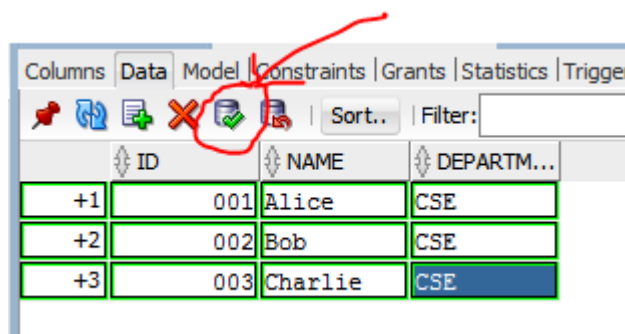
1. Double click on table name to open the table in IDE. Click on 'Data' tab to open data editing tab



2. Click '+' symbol to insert rows



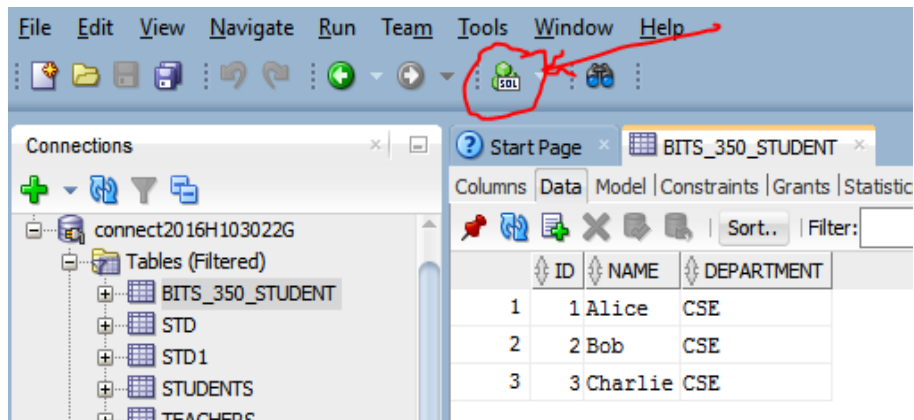
3. Enter values and click commit(F11) to save your changes



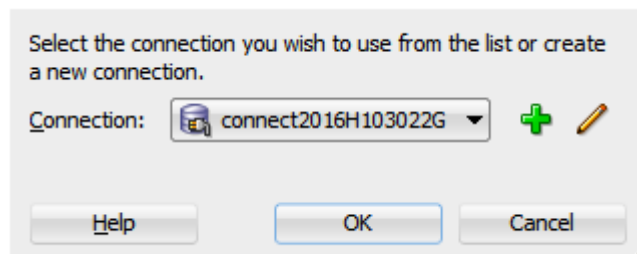
TIP: Use tab key at last field to insert another row

## Running SQL queries

1. Open SQL Worksheet using Alt+F10 or below symbol



2. Select your connection to work on worksheet and click OK



3. Write query in worksheet.  
Press run symbol or Ctrl+Enter to run the query

