# ORACLE' **BIG DATA** 122 .759 .07361 Big Made Simple

## Oracle Big Data SQL Day with Development

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Setup Guide



#### Setup: Basics

- Wifi: clear-guest id/password guest / <password>
- 2. Copy following folders from thumb-drive to your computer:
  - setup-files
  - Workshop-HOL
  - Appropriate SQL Developer Version
    - Windows-SQLDev
    - OSX-SQLDev



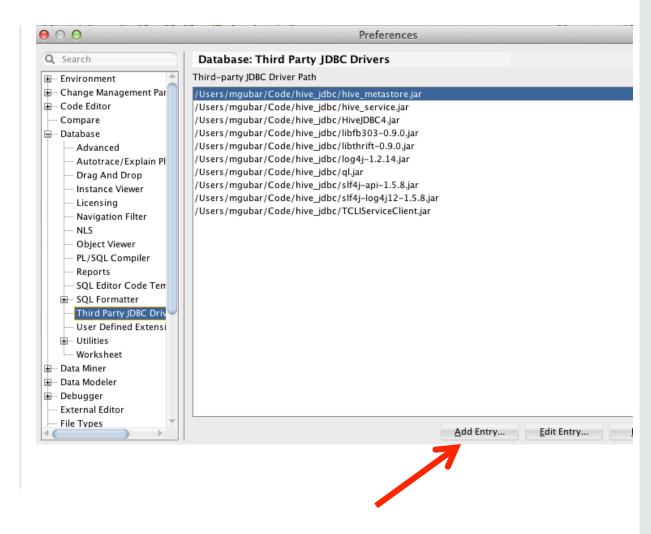
#### Setup: Install SQL Developer

- Windows
  - Unzip sqldeveloper-4.1.5.21.78-x64.zip
- OSX
  - Ensure you have JDK 8 (included on Thumb-drive)
  - Unzip sqldeveloper-4.1.5.21.78-no-jre.zip



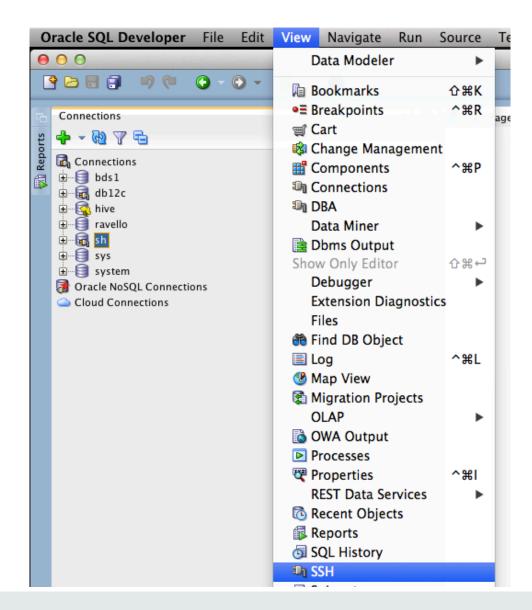
## Setup SQL Developer: Configure Hive JDBC Drivers

- Launch SQLDeveloper
- Go to SQL Developer Preferences menu
- In Database->Third Party JDBC ...
  - Add Entry
  - Add each jar found in the
     [OSX | Windows]-SQLDev/hive\_jdbc
     folder (copied from thumb drive)
- Restart SQL Developer

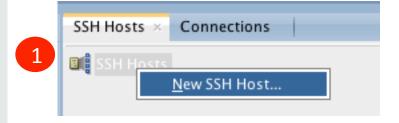


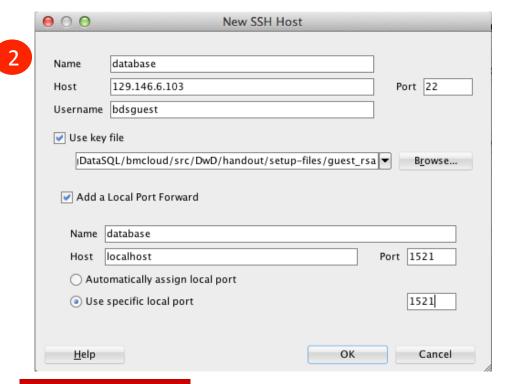
#### **Enable Tunneling**

- We'll use an SSH tunnel to allow SQL Developer to connect to Oracle Database and Hive
  - All connections will use "localhost" and the requests will be forwarded
- Open SSH Connection window
- View -> SSH



### **Enable Tunneling: Database**

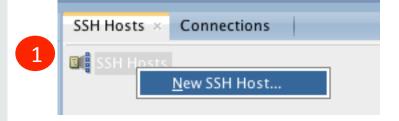


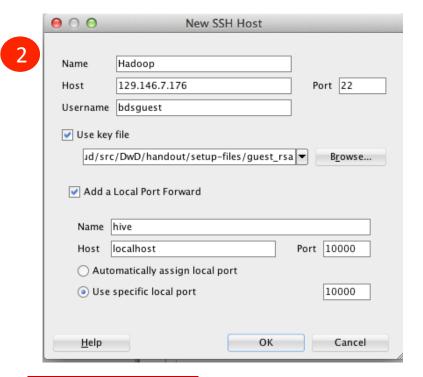


- Right-click SSH Hosts to add new SSH connection and tunnel
- Parameters:
  - -SSH
    - Name: Database
    - Host: 129.146.6.103
    - Port: 22
    - Username bdsguest
    - Key file: <topdir>/setup-files/guest\_rsa
  - Port Forward:
    - Name: database
    - Host: localhost
    - Port: 1521
    - Use local port: 1521



### Enable Tunneling: Hadoop





- Right-click SSH Hosts to add second SSH connection and tunnel
- Parameters:
  - -SSH
    - Name: Hadoop
    - Host: 129.146.7.176
    - Port: 22
    - Username bdsguest
    - Key file: <topdir>/setup-files/guest\_rsa
  - Port Forward:
    - Name: hive
    - Host: localhost
    - Port: 10000
    - Use local port: 10000



#### Properties on Private Key

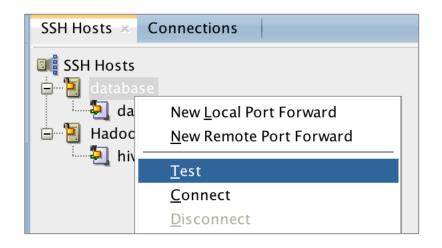
Ensure that private key guest\_rsa is owned by you and has the correct ACLs

#### Example:

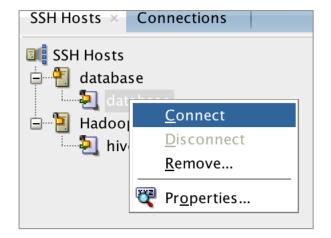
```
mgubar-mac:setup-files mgubar$ ls -l guest_rsa
-rw----- 1 mgubar staff 1675 Mar 1 16:18 guest rsa
```

#### Test the SSH Connection & then Connect!

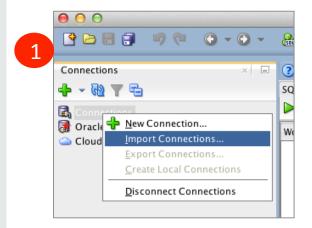
 Test that the connection works for both the Database and Hadoop



 When successful, connect using the Local Port Forward for both the Database and Hive

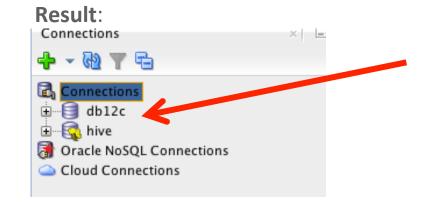


### Setup SQL Developer: Add Database Connections



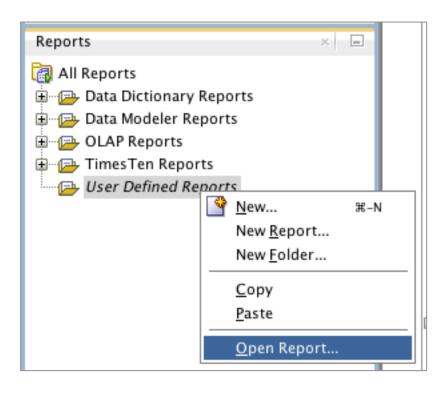


- Right-click Connections. Select
   Import Connections
- Select setup-files/cloudconnections.xml. Next.
- Remove All Passwords. Next.
- Select All Connections. Finish

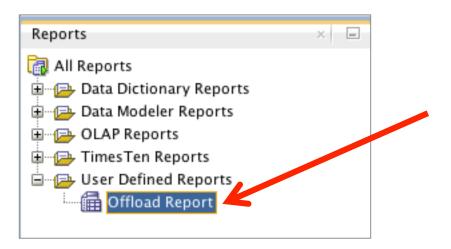




## Setup SQL Developer: Add User Defined Report



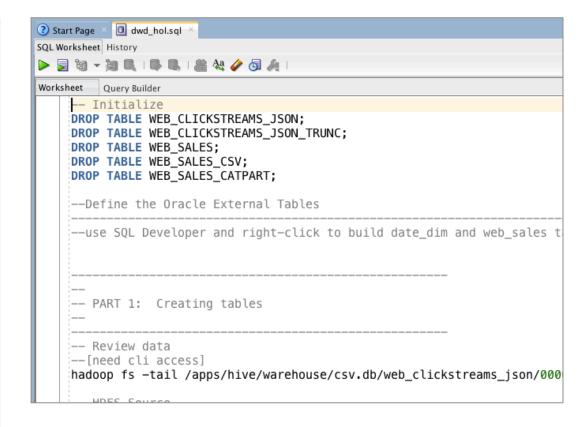
- Right click on User Defined Reports and select Open Report...
- Select setup-files/offloadreport.xml





#### SQL Developer: Open HOL Script

- File->Open
  - Workshop-HOL/dwd\_hol.sql





#### Connect!

- You will be assigned a number your user id will be bds[i]
- All passwords are bigdata

