

Oracle Big Data SQL

Day with Development

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Setup Guide



Big Made Simple

Setup: Basics

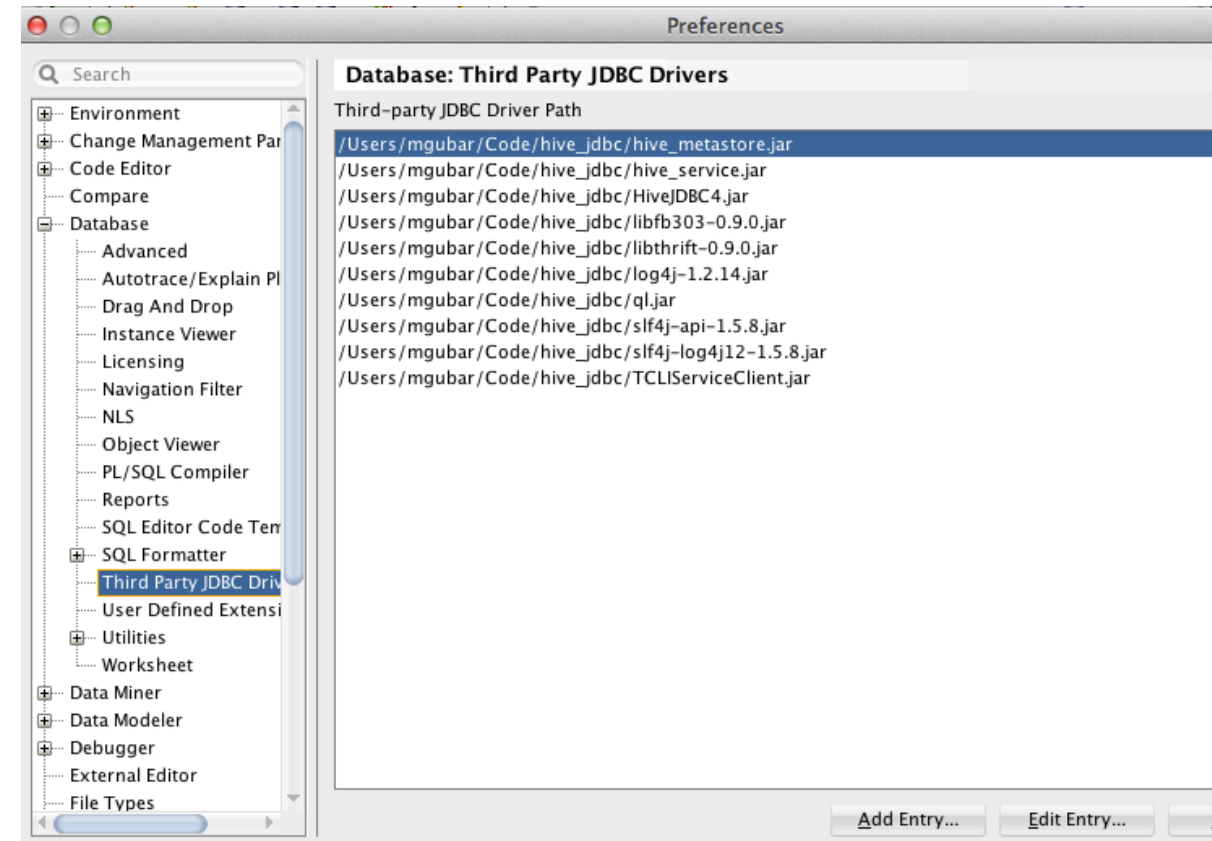
1. Wifi: clear-guest
id/password - guest / <password>
2. Copy following folders from thumb-drive to your computer:
 - setup-files
 - Workshop-HOL
 - Appropriate SQL Developer Version
 - Windows-SQLDev
 - OSX-SQLDev

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

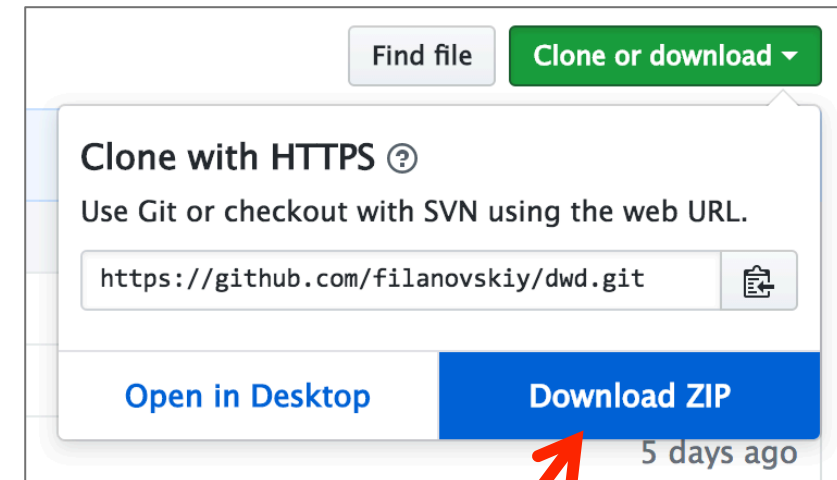
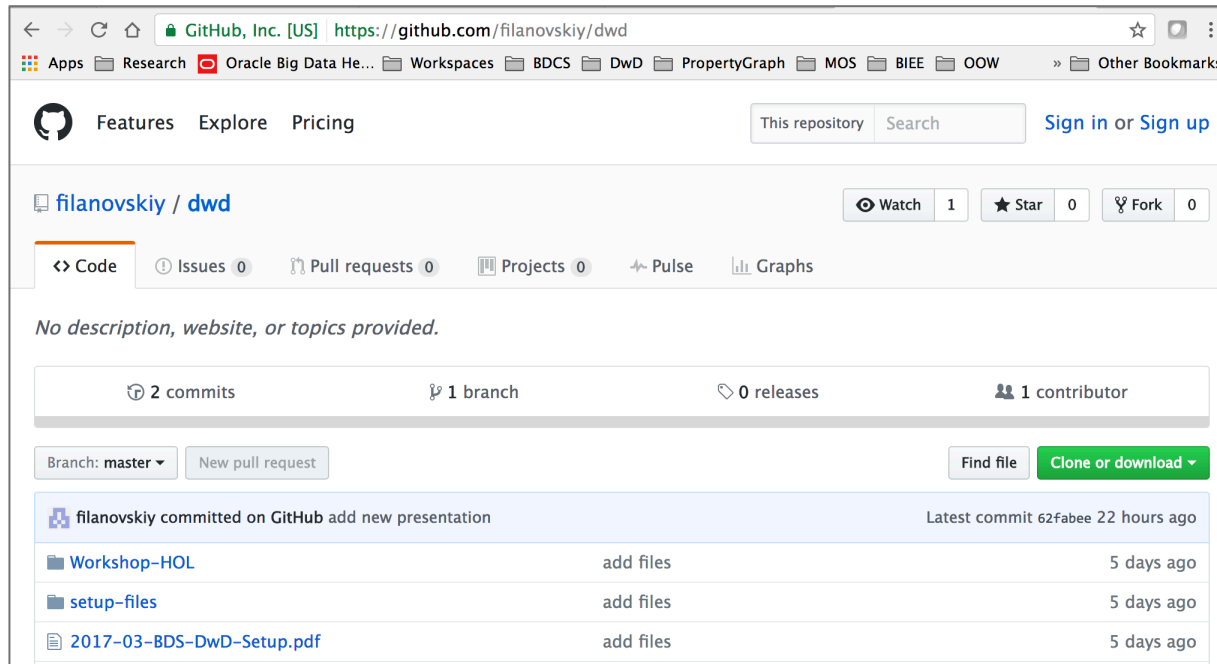
Setup SQL Developer: Configure Hive JDBC Drivers

- 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



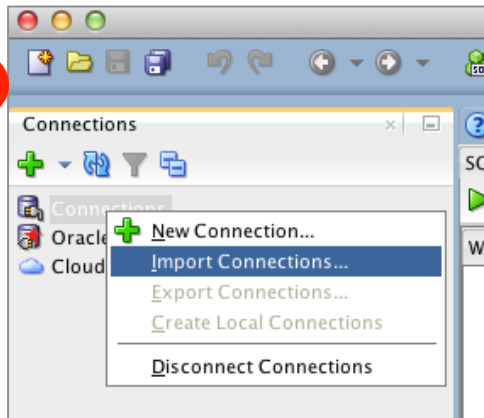
Download Content

- Go to github
 - <https://github.com/filanovskiy/dwd>

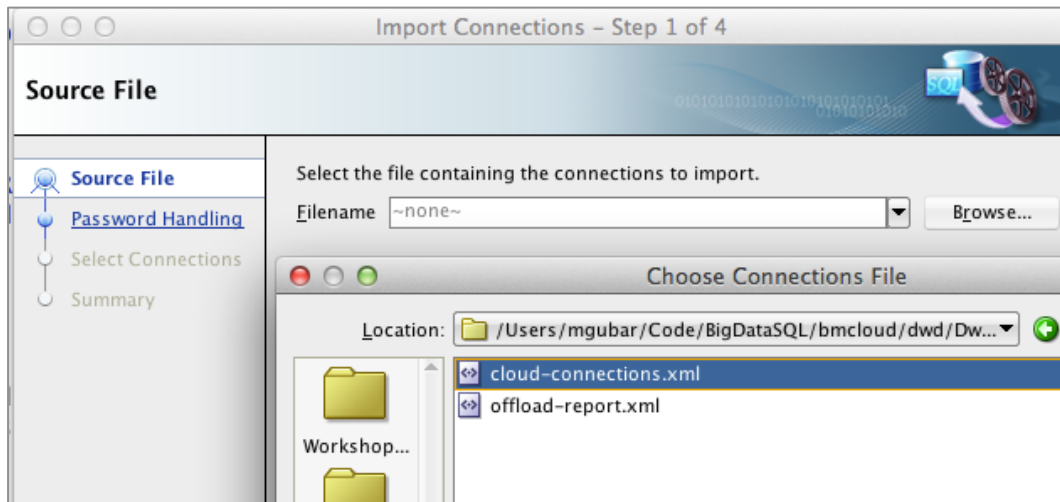


Setup SQL Developer: Add Database Connections

1

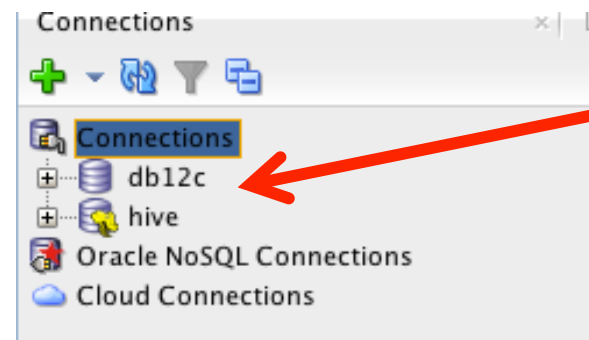


2



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

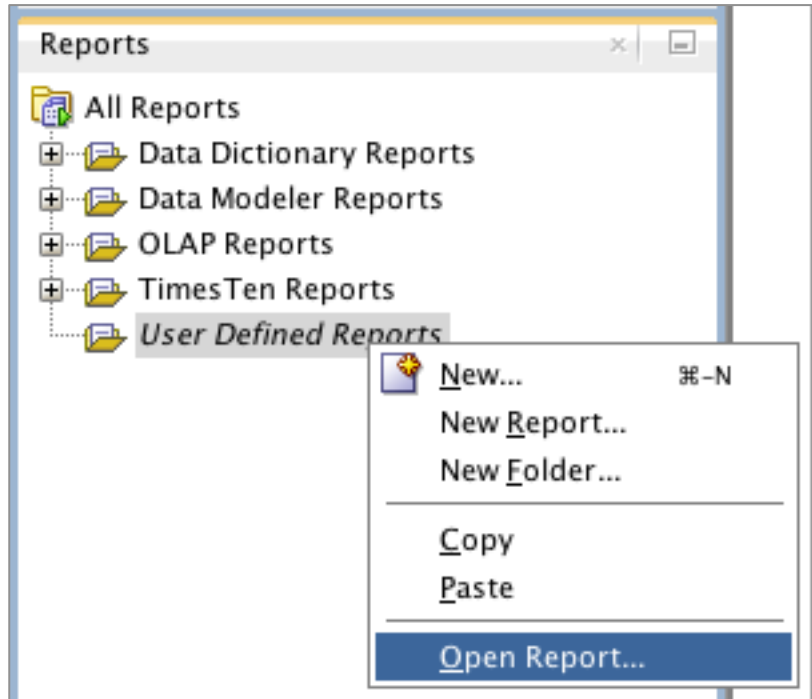
Result:



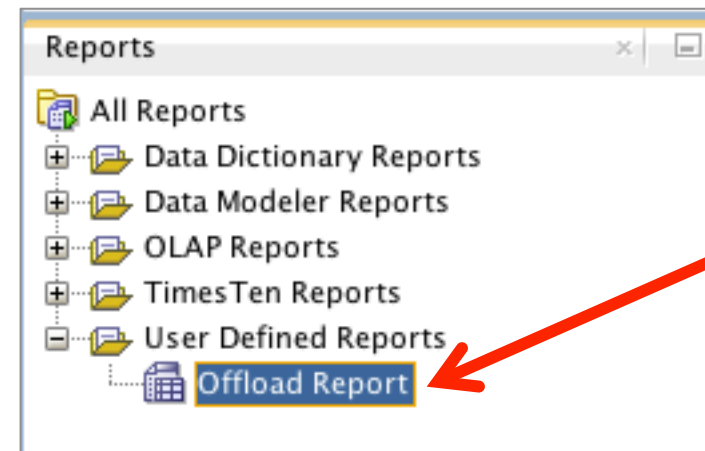
Connections

- **SQL Developer** Hosts. Change from **localhost** to:
 - Database Server: **129.146.6.103**
 - Hive Server: **129.146.7.176**

Setup SQL Developer: Add User Defined Report

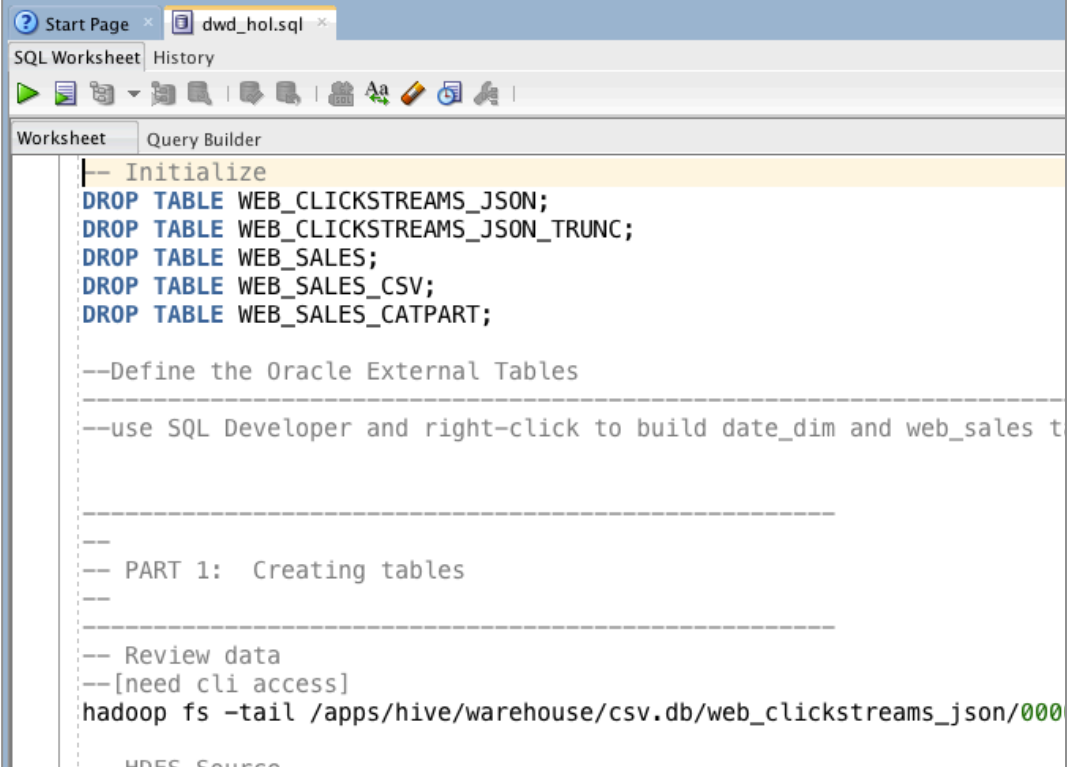


- Right click on **User Defined Reports** and select **Open Report...**
- **Select setup-files/offload-report.xml**



SQL Developer: Open HOL Script

- File->Open
 - Workshop-HOL/dwd_hol.sql



```
-- Initialize
DROP TABLE WEB_CLICKSTREAMS_JSON;
DROP TABLE WEB_CLICKSTREAMS_JSON_TRUNC;
DROP TABLE WEB_SALES;
DROP TABLE WEB_SALES_CSV;
DROP TABLE WEB_SALES_CATPART;

--Define the Oracle External Tables

--use SQL Developer and right-click to build date_dim and web_sales t

-----

--
-- PART 1: Creating tables
--
-----

-- Review data
--[need cli access]
hadoop fs -tail /apps/hive/warehouse/csv.db/web_clickstreams_json/000

HDFS Source
```

Connect!

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

The screenshot shows the 'New / Select Database Connection' dialog box. On the left, there is a table with two columns: 'Connection Name' and 'Connection Details'. The table contains two entries: 'db12c' with details 'bds[n]@//129.146.0...' and 'hive' with details 'opc@//129.146.0.9...'. The 'db12c' entry is selected. On the right, there are several input fields and checkboxes. The 'Connection Name' field is set to 'db12c'. The 'Username' field is set to 'bds1'. The 'Password' field is masked with dots. There are checkboxes for 'Save Password' (unchecked) and 'Connection Color' (checked). Below these are tabs for 'Oracle' and 'Hive', with 'Oracle' selected. Under the 'Oracle' tab, there are dropdowns for 'Connection Type' (set to 'Basic') and 'Role' (set to 'default'). Below these are input fields for 'Hostname' (129.146.0.64), 'Port' (1521), and 'SID' (orcl). There are also checkboxes for 'OS Authentication' and 'Kerberos Authentication', both unchecked. At the bottom right of the configuration area is an 'Advanced...' button. At the bottom of the dialog are buttons for 'Help', 'Save', 'Clear', 'Test', 'Connect', and 'Cancel'.

Connection Name	Connection Details
db12c	bds[n]@//129.146.0...
hive	opc@//129.146.0.9...

Connection Name: db12c
Username: bds1
Password: *****
☐ Save Password ☒ Connection Color
Oracle Hive
Connection Type: Basic Role: default
Hostname: 129.146.0.64
Port: 1521
☒ SID: orcl
☐ Service name
☐ OS Authentication ☐ Kerberos Authentication Advanced...
Status :
Help Save Clear Test Connect Cancel