If you cannot install the [Oracle Database Appliance](https://eventing.coursera.org/api/redirectStrict/MNZel1JaehQqSAX7JTlz4YFNrG3Nw8__AVd7L23FNpPMiHgIJRs8luWZ5C_-WCuto5D_LUbaDvLm7pzPk2zOww.CwuVrhD-X2hS3OcT4hSKJg.zjr3lfbEq9GaDl6qqUgWYYqMyHNxhDywrBLIgt_6mLV0Pw1dYF9lTSEXePOLf27plsBeW1_Jct7JV0IR0MSvt4mSV495MV7ic29tXwM5SHsoBw2sSPuF6FE3__WSI-nHLijiaXZ_76LMyduDtfVu9X2bZ3WtLT15-SbSml3JniLUEGSVwHXIFO3TApcPtfSAdfRRe1CTZPt0byQ1Sile2BwRWrtAPdN1T2lzEEy7-Mk2la3usHNDcvU0ueROWPdrzy2M4hscK2w8oUWKtVmVCT2JtohzAlOdGHeJsicrLQgbO1THChpjel-kRTuZ7h6gZYvQHtTsUDVwUCv-U2ekYeulefTZ7XmtgVwMjRShRRUthuQ7xIAW7zguGFyY8pFfoEoRkk3xWmXfu4txOnlZ7KvtJd3GzJJJN4eAF0DmxX7AVZIwwepgMeG2S0sAEUzcDhsMDMLZP_2Be6MYQs3a-g) or just want to install and configure and Oracle database server, you should read these instructions. Note that the Oracle Database Appliance is the only option for Mac users. For Windows and Linux users, the Oracle Database Appliance requires a 32 bit operating system.

You can download Oracle from the [Oracle Technology Network](https://eventing.coursera.org/api/redirectStrict/cDB5q-x44pNlerO_jyqr4U7yNmcUuJ5pguC-H9g-U9bf8J9DOV7fdKBvtyGcX847AxZZsCjmYFEpngx2ovbHlw.R5114LAWiNB5ikfhEf2nRQ.ONeeSnbXL8r0Zx3epVMqwS_clsQz-c114atklxBf1CwBa19BS4elLkiFi_nXq8_XfEQ9Qe4AQuiixAzV6IObWRhrdFYR3e0ubF3dmdFzQg5ChHEBODH8b_xdmt27e85lsDicQxym7oOT2prOfCpPqqI81aMNyG3SgiNHMES2K-GmjWgOjjPZGxZ3yK9WpNe9o_b8NRH1pG90_GEEXfW-S0NW-IJI2uCepOQHdc8akLVqJpnzWm6zW0CyKjKw_n7GlviSEXeN25pSeGRC3TVfzqgyZdcrQ5fLVI87ThfLO1rMBWwSLUNZey_vdZslK0L6e-LfQUwCeZ8ot3_s8CiXnK4wHfFCyunG855r73Rzm2YR_15e0wgfbRIX6Tc79yW8). You must have an account to download software but you do not need to pay a fee. You need to install both an Oracle server edition and an Oracle client. I recommend that you install the [Oracle SQL Developer](https://eventing.coursera.org/api/redirectStrict/WryxEJPtGHReBDh_KTOP4ZQ0UCgalXyc13O1_jM2vph547Lz7qdgjEXydYKM_ueZLQG14MUAL_umfi_RFr5nkg.XATPSu8AKPjwoo-PMSpkiA.QwzmB-xqzutPiiBOBegFxAANfOwFhVWY1dFSkUcR8btSSPQ7eIaDOw6rHeCKGB7v2yxbi94hxsY5x_1DzZRbs1MhGfuCfPi1qt1MaFb9dv0Ctcd5-w-kM3hCFzoOkYIN5kfXkZRLM5zvE-Ny7gOCWvZseuhrhluBsoQRZYfZQhpPB9k8yXFnfuKpsFL90fGlGxL8_Mkn8uIcs9sb7Fa0Pn8BmQj6Hrpse6X0IDuBmFzerIDF0HTnznFnoceBTQcAguwFgsxgxF0KBVCjbR_hrowVcMETogwbleM5tjAKkcdUD09-sYTLrUu5eXsFF7cs8VS3GSBV3KfyTArmKLvPKHCU0oRTnEAT1rilZA80sMshWQ3C9TPOkt84bSh8uASVcDjYOnQD1f-8X6jF89siL4FqRd6JL0WXrGCTXIh7touOkS58Zdr3_H-4xnFPFmM5) client.

Oracle server cannot be installed under Mac operating systems (OS X and others). Mac users must install the [Oracle Database Virtual Box Appliance](https://eventing.coursera.org/api/redirectStrict/MNZel1JaehQqSAX7JTlz4YFNrG3Nw8__AVd7L23FNpPMiHgIJRs8luWZ5C_-WCuto5D_LUbaDvLm7pzPk2zOww.CwuVrhD-X2hS3OcT4hSKJg.zjr3lfbEq9GaDl6qqUgWYYqMyHNxhDywrBLIgt_6mLV0Pw1dYF9lTSEXePOLf27plsBeW1_Jct7JV0IR0MSvt4mSV495MV7ic29tXwM5SHsoBw2sSPuF6FE3__WSI-nHLijiaXZ_76LMyduDtfVu9X2bZ3WtLT15-SbSml3JniLUEGSVwHXIFO3TApcPtfSAdfRRe1CTZPt0byQ1Sile2BwRWrtAPdN1T2lzEEy7-Mk2la3usHNDcvU0ueROWPdrzy2M4hscK2w8oUWKtVmVCT2JtohzAlOdGHeJsicrLQgbO1THChpjel-kRTuZ7h6gZYvQHtTsUDVwUCv-U2ekYeulefTZ7XmtgVwMjRShRRUthuQ7xIAW7zguGFyY8pFfoEoRkk3xWmXfu4txOnlZ7KvtJd3GzJJJN4eAF0DmxX7AVZIwwepgMeG2S0sAEUzcDhsMDMLZP_2Be6MYQs3a-g). The SQL Developer client can be installed under Windows, Linux, Unix, and Mac operating systems. This document shows the steps to install the Oracle Database Virtual Box Appliance.

[OracleDatabaseApplianceInstallation.docx](https://d3c33hcgiwev3.cloudfront.net/_6f8e147978854a9151c06abc4755d4f2_OracleDatabaseApplianceInstallation.docx?Expires=1460419200&Signature=CCdYMBtDYjq4x7gwLXfLpCqbMPjWjpvaaUw40jbAw0c5Ng8KWI6CAVK-etbj1AB7KOIn0B8xEFnQkqNIpY6m6TcVk07hPGNdkISXtglytjFBPwei4ij6y9EEcH-ThArFOmEtVW29qG65gMAS1TSoMcflh4w3Asc9qVMPF0by-eM_&Key-Pair-Id=APKAJLTNE6QMUY6HBC5A)

For the [Oracle server](https://eventing.coursera.org/api/redirectStrict/EFzvQTwnCiECmhD68Y271xyD80U1NfCcnxLdoQdhaQkwP8Vq6yGNPe6hZZjoxlXlzQxRNJMlPlDCAhUVC_paSw.moKhtnCJd714zyTRQc4gZQ.WsUQM3as5HschFyInPcZzlIMApf_zPgQk59ScqDvyWvVe3XaJ8CKAy2BYqOFrd7VQWXlgnmx_LjVtYG2RBbxzJPYCxxnu0SC5KIOawX-a1mT06f6Ld1-ovbMTMtwHPjtkeFfncD8fJxqqmUT7QffHfPQNqUYBqxepF2NimnKSiFiZBedXiHWG1R7zd--aJ5ueLlLsgFEkcNEF-NW0bVoz4uNTwQv6Ec3d3s8tvzSgehoKDAUY42gDL4g2a6g2a1PbB69G8Bac2BBYbkcJiV1VGsR0PUxS1ITJoTCFlHIiHcrbsQ5XQptQYn0N9iKFDac6WrLvcUoth21T2BcMoFMkGc9LO0B6PTFpKaH3ZetUzTtwcHQj1Jz8jAZc5QU2d0TPcIj9AcY_2bgzEw9-3EIVrgZyLzrsdj0dozO1zn6OktobTAkCxMPZWQrkpiayB6w), I recommend the Oracle 12c standard edition. Oracle only supports 64 bit versions of Oracle 12c. Oracle has a 32 bit version for Oracle 11.2g. Oracle 11.2g including the Express Edition will work fine for this course and other courses in the specialization.

Installation involves the normal tasks of downloading, copying files, setting up registry items, and so on. The last part of the installation is configuration of a default local database.

Here are links to youtube videos about installing and configuring Oracle 12c. The videos have comments that may be useful to help you get beyond installation problems.

https://www.youtube.com/watch?v=4y1WRF\_4oFQ

https://www.youtube.com/watch?v=0TOg7w0aFrA

https://www.youtube.com/watch?v=jhh3\_vl5FVI

https://www.youtube.com/watch?v=ObMiVWEl5ao

Here is a link to the Oracle Quick Guide for installation. It is still rather lengthy.

[https://docs.oracle.com/database/121/NXDQI/toc.htm](https://eventing.coursera.org/api/redirectStrict/7i4LbYjHn03ovgvvOrWwfxckukAWrx5hZqf0PlsjUz-s_pi-VibQUaMfn0Te2oKkaNxnHLp685Gs5mPoBZKyWg.1EbwhQiH32z6ydaRfhzW8A.IAhDXQoZxrjb-X9NUE8VQP_fK-SegdSk7R9APOE5HuhT03IB6Bgp7XVr_zc-1JOYnpDNQR6FIbyg27K3LK95geELJiE9-JwYgZEebEukuWjrq-8KOjt_AgxFMIMo02kFJKqLGiy2jNXMxuLCd-feS5Vb17TdEnNhBOZLBnebneGhXxhX6UZE25iP-TS2VVTQLEUX-L8U3NWfCO6DXP4qmSUUuIrZ49-WLIWvmMuZWm06jvEvrbJd8P67KqneefyvCxsQL_VUhPSY1XQQPunhNcOCow0qSJ4yfua14rSdUNwF4XJsgneKvc67QafxREpIKH5tDISauYOkTCpokXtJWJchRa4LfLYdabP0hkvXoIg)

The most important part of the configuration process is the name of the default database and the administrator password. You should use ORCL, the default name for the database. You need to specify a default password for two privileged accounts, SYSTEM and SYS. You must remember the administrative password that you give. There is no default password for these accounts. If you do not remember your password, I am not sure how to recover it. You need to use these privileged accounts to connect to your default database when using the Oracle SQL Developer.

These instructions apply to learners who have installed an Oracle database server and Oracle client such as the Oracle SQL Developer rather than the [Oracle Database Appliance](https://eventing.coursera.org/api/redirectStrict/MNZel1JaehQqSAX7JTlz4YFNrG3Nw8__AVd7L23FNpPMiHgIJRs8luWZ5C_-WCuto5D_LUbaDvLm7pzPk2zOww.CwuVrhD-X2hS3OcT4hSKJg.zjr3lfbEq9GaDl6qqUgWYYqMyHNxhDywrBLIgt_6mLV0Pw1dYF9lTSEXePOLf27plsBeW1_Jct7JV0IR0MSvt4mSV495MV7ic29tXwM5SHsoBw2sSPuF6FE3__WSI-nHLijiaXZ_76LMyduDtfVu9X2bZ3WtLT15-SbSml3JniLUEGSVwHXIFO3TApcPtfSAdfRRe1CTZPt0byQ1Sile2BwRWrtAPdN1T2lzEEy7-Mk2la3usHNDcvU0ueROWPdrzy2M4hscK2w8oUWKtVmVCT2JtohzAlOdGHeJsicrLQgbO1THChpjel-kRTuZ7h6gZYvQHtTsUDVwUCv-U2ekYeulefTZ7XmtgVwMjRShRRUthuQ7xIAW7zguGFyY8pFfoEoRkk3xWmXfu4txOnlZ7KvtJd3GzJJJN4eAF0DmxX7AVZIwwepgMeG2S0sAEUzcDhsMDMLZP_2Be6MYQs3a-g). The database appliance includes an Oracle 12c server, preconfigured database, and Oracle SQL Developer client so you do not need to bother with these instructions.

Connecting to a local Oracle database using the SQL Developer or another client is confusing to many learners. It is simple after it is setup, but can be confusing to setup.

Before making a connection, you need to install the Oracle server and client. I assume that you have installed Oracle 12c standard edition and the Oracle SQL Developer. I think these notes apply to other Oracle server editions, but I have not tried them with other server editions. You must know the name (SID and Global Database Identifier) of the default database. This name should be ORCL unless you have changed it during the installation process. You must also know the administrative password for the default database. You specified this password during the installation process. If you do not know the password, you will not be able to connect to your default database.

Here is a quick way to make a connection. For screen snapshots and details about creating a new user name, you should read the document about [making connections to a local Oracle database](https://eventing.coursera.org/api/redirectStrict/N6qUYdUiHpIS64LSsfvKiXy52EUM1Gae4J7QNvoTFvEXbFOTQuoPM9JPpX8FZH5yxdtQizuGADeWA17kPMJr1Q.zeoG16SnoBgEKSTccEWsrw.Hl1r2VlYEYg_G_5UYxt5omNZf8c1dC2HiH7ShHiwbeWpJo5ngFXmXO9YgAHeidsTcLLpmtg4vDcVZFEqvPpuKpP3FySwGOJv660KSWI8rC5wwIn8VblONohnb4OQJbbS0z-RlrwruAlygy7lYrq782kXmeAZtMm1mhH1sGoaZdEN-9PO8K5O8UkEFZtnx3I4DqLpHC6ekFsaer3Mop45e_Z0TactHw1y_87rPMFEMQ7lWgt99OQq6BfhnxMjgXQSEmPLMX2IrJyUSWMYIi2Inmc8mpNXr6hG1vpodt22AeZhzOZLAvr0KCB_nretEXIcFT8JZAMgEi0BdA6_xnf9dbG6RypJG6OnEm09y0Po8IU6gz3AQVw5LZdDgsv5XXeDchS8VT-88Eu5KDG6-QksbhhIRLYTUOqGlTgr_JOJ7gTF7JrA-rNICCv0DAqQq0F4Ic566lcg8p9_2CoyEm2qvzDSr1aVEi18hlxz0qgPnho).

You need to create a connection in the SQL Developer before you can execute SQL statements. After opening the SQL Developer, you should see the Connections pane. If you have made previous connections, you will see them in the Connections pane. You can click on the + (plus) icon to create a new connection.

You can either create a new user or use an existing, privileged user (SYSTEM). Using the SYSTEM account is easier although you should not use the SYSTEM user on a shared server to create and query tables. Since you have a private server, you can use the SYSTEM user.

Here are the property values that you need to provide in the window to create a new connection. The SID is the default database name provided in the configuration step of the installation process.

* Connection name: any name that you want
* User Name: SYSTEM
* Password: you need to use the administrative password that you provided in the configuration step in the installation process
* Hostname: localhost
* Port: 1521
* SID: ORCL

You should save and test the connection. You should see a successful test. Select the save password check box and exit the Connection window.

In the Connection pane, you should see a connection with the name that you provided. Select the + button to open the connection. After a minute or so, you should see the list of object categories in this database. You can type SQL statements into the SQL Worksheet and execute statement using run script button. The results of a SQL statement execution will appear below in the Script Output tab.