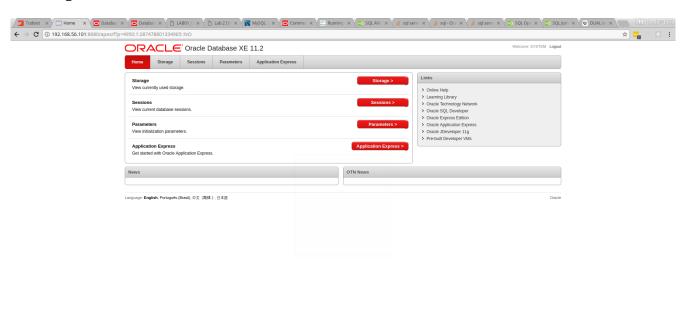
CSE 572 - LAB 1

- 0. To install Oracle DB XE on my computer I followed a hybrid approach, creating a CentOS 7 VM, installing the database as described there, and then setting up a hosts-only network adapter so I can access ports outside of the VM. I also had to add a few configurations to the firewall. This allows me to SSH into my CentOS 7 VM as well as access the DB from a browser.
- 1.1. I cannot access the Oracle Database XE Desktop GUI because I did not install a Windows Manager on the VM. If this is needed at some point I'm sure I can fix this.
- 1.2. I can access the website homepage via my hosts only adapter on the same local machine. The following is a screenshot from this:



2. To unlock the sample user account, I SSHed into my VM and then ran the commands listed in this section, this screen shot showing that it worked.

```
[aaron@localhost ~]$ sqlplus hr

SQL*Plus: Release 11.2.0.2.0 Production on Fri Sep 29 21:13:11 2017

Copyright (c) 1982, 2011, Oracle. All rights reserved.

Enter password:

Connected to:
Oracle Database 11g Express Edition Release 11.2.0.2.0 - 64bit Production

SQL> SELECT table_name FROM user_tables;

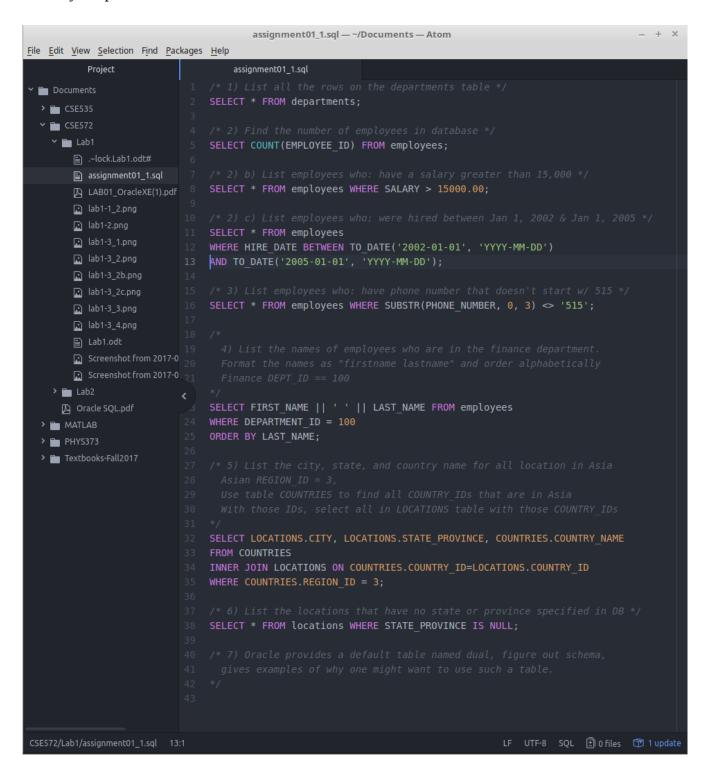
TABLE_NAME

REGIONS
LOCATIONS
DEPARTMENTS
JOBS
EMPLOYEES
JOB_HISTORY
COUNTRIES

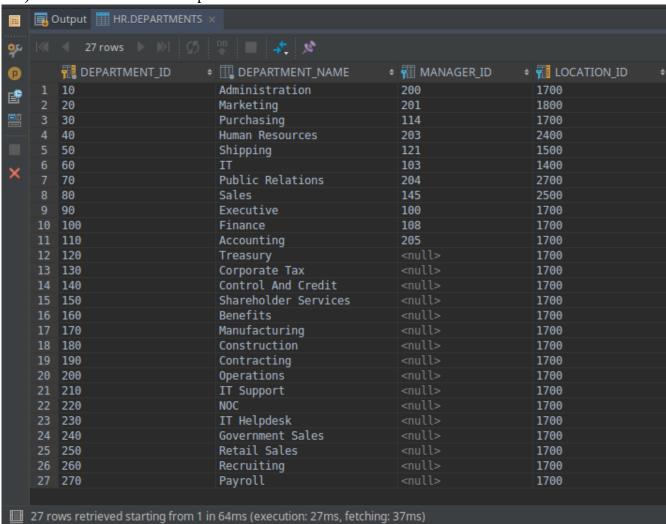
7 rows selected.

SQL>
```

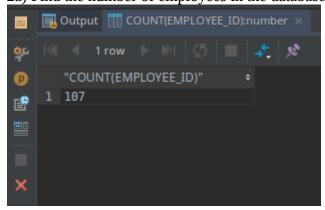
3. Finally, I created an SQL file with the requested requirements, each result has a screen shot below as listed by the problem itself. Here is the code executed for all statements:



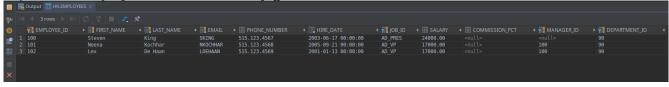
1) List all the rows of the departments table



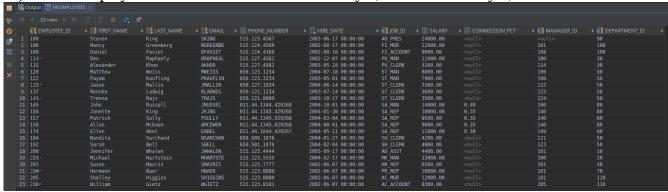
2a) Find the number of employees in the database:



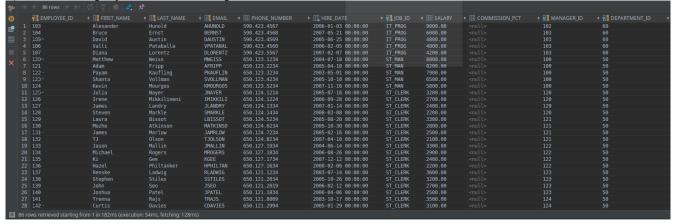
2b) List the employees who have a salary greater than 15,000:



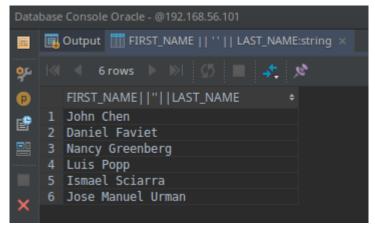
2c) List the employees who were hired between January 1, 2002 and January 1, 2005



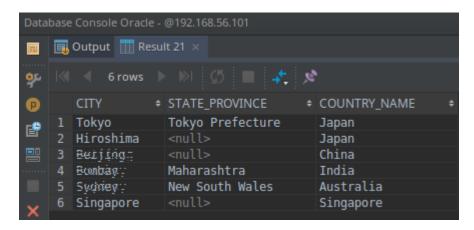
3) List the employees who have a phone number that doesn't start with 515:



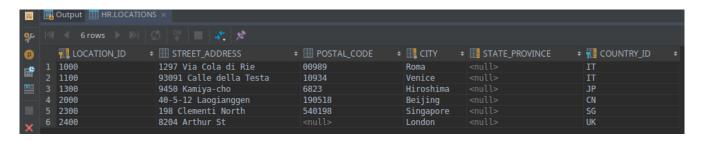
4) List the names of the employees who are in the finance department. Try to format the names as "firstname lastname" using concatentation and order them alphabetically.



5) List the city, state, and country name for all locations in the Asia Region



6) List the locations that have no state or province specified in the database.



7) Finally, a discussion of the purpose of the DUAL table provided by Oracle. Specifically the table is found in SYS.DUAL. The table is a single Column of type VARCHAR2 called DUMMY with a single row of value 'X'. Oracle's SQL syntax requires the FROM keyword, and thus requires a table for all queries. One of the more common uses is to perform a SELECT query on a DB value such as USER or SYSDATE that isn't actually present in the table itself.