# Using ORACLE server 12c

**Lab 1 1 % Due September 21, 2017 midnight via BLearn**

Use your Oracle USER ID STxx on BTACS server database.

* Use the SQL Developer HELP (Tutorial: Creating Objects for a Small Database) to find the Script to create library objects. This small library schema has three tables: BOOKS, PATRONS, and TRANSACTIONS. Additionally, the script has a sequence, a view, a trigger, and a stored procedure.
* Run the script to create the database and to insert the data.

1. Use the following box and indicate the primary and foreign keys:

books ( book\_id, title, author\_last\_name, author\_first\_name, rating)

patrons (patron\_id, last\_name, first\_name, street\_address, city\_state\_zip, location)

transactions (transaction\_id, patron\_id, book\_id, transaction\_date, transaction\_type)

Please note the following codes: transaction code 1 = checking out , 2 = returning 3 = placing a hold

1. Create SQL statements to add
   1. Yourself as a patron
   2. Our textbook as a book (with high rating!)
   3. Transaction to take the book out from the library. Use today’s date and time as a transaction date and time.
2. Prepare a select statement to list all patrons ordered by the last name (this list should include your name).
3. Write an SQL query to list all tables created by you (USER\_TABLES). List the table names only.
4. Write an SQL query to list all tables, sequences, and indexes created by you (USER\_OBJECTS). List the names of the objects, types, and date and time of their creation.
5. Write an SQL query to display current **date and time** using **ISO 8601 date/time standard with the local time zone.**
   1. Using the date/time from the Oracle server
   2. Using the date/time from the user session (client session using SQLDeveloper).
6. Write an SQL query to display the name of day spelled out in English (e.g., Monday, Tuesday,…) of your date of birth . You may use TO\_CHAR () and TO\_DATE () to convert between strings and date.

**Submit the answer as a pdf file**

1. List of the tables and their primary and foreign keys. (box above)

2. SQL queries and their results for questions 2-7.