DBS311   Advanced Database Services
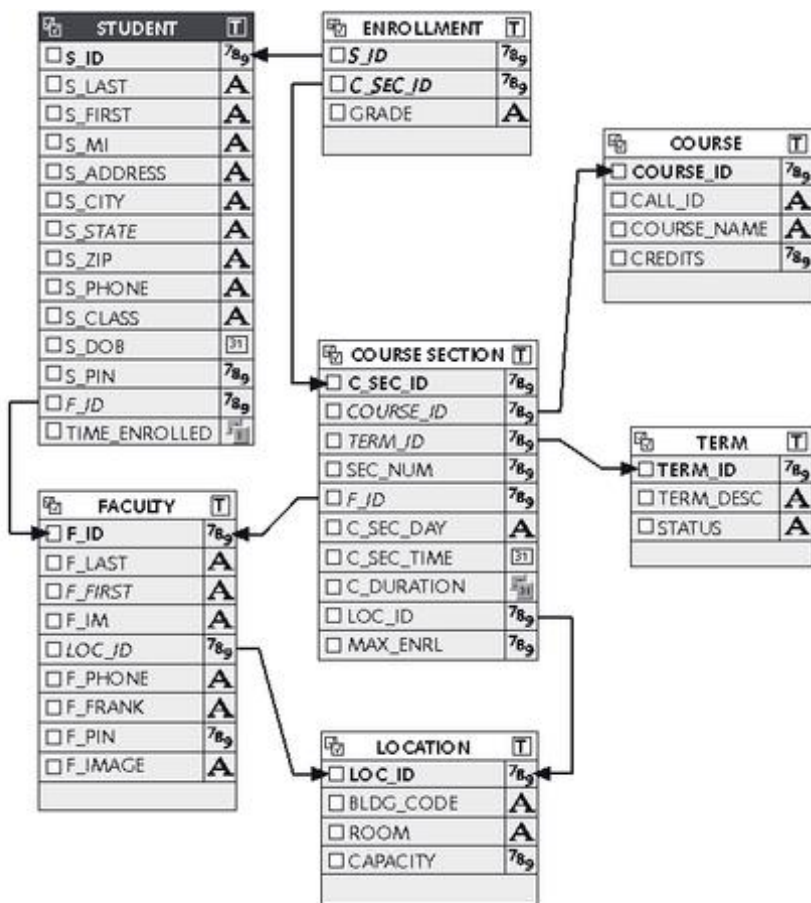
Lab Exercise#2 – Single-Row Functions

SQL SELECT

Using SQL Developer and screen captures of your output you are to add the following constraints to the tables you created last week in the lab exercise. You have been given the following script file to run against your schema to create and populate some tables for this lab exercise. If you have already run this script for Northwoods you do not need to run it again. If you have not run the script go to Blackboard and find the **northwoods.sql**, download and run this script to create the tables.

Use SQL Developer to answer all the queries in the lab exercise. The first 4 are done for you. Only submit to me questions 4 to 9.

You can refer to the following diagram to see the tables. Look at the schema for Northwoods University.

Visual representation of the Northwoods University database

Practice Questions

Single Row Functions

Single row functions allow you to manipulate retrieved data. The single row functions come in various categories. The ones given below are character manipulation functions. There are also number functions and date functions.

Question 1

Do the following to show you how the formatting of data is accomplished. A DATE data type by default only shows the day, month and year. If you wish to see the time you have to ask for it.

```
SELECT c_sec_id, sec_num, c_sec_day, c_sec_time
FROM course_section;

SELECT c_sec_id, sec_num, c_sec_day,TO_CHAR( c_sec_time, 'HH:MI  AM')
FROM course_section;
```

Question 2

```
SELECT call_id
FROM course
WHERE course_name LIKE '%Intro%';

SELECT LTRIM(call_id, 'MIS')
FROM course
WHERE course_name LIKE '%Intro%';

SELECT RTRIM(call_id, '101')
FROM course
WHERE course_name LIKE '%Intro%';
```

Question 3

```
SELECT s_id, s_last, TRUNC((SYSDATE - s_dob)/365.25)
FROM student;
```

Question 4

Display the bldg_code for loc_id = 1 so it displays in mixed case. The first letter is to be a capital and the balance of the letters is to be in lower case.

Question 5

What is the length of the term_desc for term_id = 1? Display this value.

Question 6

Pad the term_desc for term_id 1 so it displays * on the left side for a total length of 12 characters.

Question 7

Replace '2005 with '1995' in the term_desc for term_id of 1. Display the result.

Question 8

Display the term_desc for term_id of 1.

Now display the first 4 characters only of the term_desc for term_id of 1.

Question 9

Display the term_desc for term_id of 1 so it displays in all upper case letters.

Display the term_desc for term_id of 1 so it displays in all lower case letters.