# INST327 - Assignment 3

*Be sure you complete all <u>three</u> questions.*

*Please consult the rubric and instruction sheets before starting the assignment. This assignment has fewer disallowed keywords and structures since it involves CRUD operations, but you should still check the instructions on each assignment for changes.*

## Q.1) CREATE and INSERT (40 points)

<u>The tables created in this question will be used in the following questions too. This question has two parts.</u>

First, create the two tables **people_copy** and **enrollments_copy** then insert all of the data from their original tables. When creating the tables, preserve column attributes and indexes (this can be done with the LIKE keyword).

*To allow for repeated clean executions of your script, precede the statements with DROP TABLE statements. To ensure that the script will run cleanly even when the tables have not yet been created, use DROP TABLE IF EXISTS ___.*

<u>Once your tables have been created, write INSERT statements to add the following information:</u>

1. Insert a new student into the **people_copy** table with these values for each column:
   person_id: *the next automatically generated ID value*
   lname: **Smith**
   fname: **Ricky**
   pronoun_id: **2**
   email: **rsmith@umd.edu**
   college: **College of Information Studies**
   department: **BSIS**
   title: **NULL**
   start_date: *use a function here that will insert the date and time at the moment this record is added*

2. Insert 3 new rows into the **enrollments_copy** table to place Ricky in the following classes. Note that you may hardcode the id values but you will need to investigate other tables to get the correct section_id values. Ricky is enrolled in INST327 section 103 for this Spring, and he was enrolled in INST201 section 0101 and INST311 section 0102 in the Fall.

**Q.2) UPDATE (30 points)**

Turns out one of the original enrollments for Ricky was incorrect and we need to change which section he is in. Keep the inserts the same but write an update that switches Ricky from INST327 section 103 into INST327 section 102. Be sure not to change any other values in enrollments_copy.

Then, write a SELECT that replicates the results below to make sure Ricky's enrollments are correct after your UPDATE query. Be sure that your query replicates the result set shown below, matching all data and format aspects, including column headers.

| student_name | course | section_number | semester_year |
|---|---|---|---|
| Ricky Smith | INST327 | 102 | Spring 2022 |
| Ricky Smith | INST311 | 0102 | Fall 2021 |
| Ricky Smith | INST201 | 0101 | Fall 2021 |

*3 rows returned. Order does not matter for this question.*

**Q.3) DELETE (30 points)**

The university has decided to cancel INST327 for the 2022 year, so next, you need to remove all enrollments for the course for this Spring. First, write a query that replicates the result set below, matching all data and format aspects, including column headers. This query is to help you determine which values need to be removed from the enrollments_copy table. Please order by section_id but any additional ordering is not necessary as your output does not need to exactly match.

| section_id | section_number | course | student_name |
|---|---|---|---|
| 171 | 101 | INST327 | Luke Skywalker |
| 171 | 101 | INST327 | Lando Calrissian |
| 172 | 102 | INST327 | Din Djarin |
| 172 | 102 | INST327 | Han Solo |
| 172 | 102 | INST327 | Richard Smith |
| 172 | 102 | INST327 | Baby Yoda Grogu |
| 172 | 102 | INST327 | Ricky Smith |
| 173 | 103 | INST327 | Leia Organa |
| 173 | 103 | INST327 | Jolee Bindo |
| 173 | 103 | INST327 | Obi Wan Kenobi |
| 174 | 201 | INST327 | Sersi Chan |
| 174 | 201 | INST327 | Phastos Henry |
| 174 | 201 | INST327 | R2 D2 |
| 175 | 202 | INST327 | Ikaris Madden |
| 175 | 202 | INST327 | Ajak Hayek |
| 175 | 202 | INST327 | Wedge Antilles |

*41 rows returned. Ordering beyond section_id does not matter.*

Then, write a DELETE query to remove all students enrolled in any INST327 sections for Spring 2022. To make sure the values are properly deleted, include the same SELECT query you wrote after the DELETE again to check the values were removed. Again, you must include the SELECT query before and after the DELETE. The results of the SELECT after the DELETE are included below:

| section_id | section_number | course | student_name |
|---|---|---|---|

*0 rows returned.*