

In-Class Assignment 17

Self-Joins, Full Joins, Cross Joins, and USING Syntax

Follow the instructions below and answer the questions that follow. Add your solutions to the SQL script called **In-Class Assignment 17.sql** and submit to Canvas by the deadline listed above. Save your file frequently to avoid losing work!

Instructions:

Complete the queries below using one of the 3 join types listed above. Apply the USING syntax to all joins.

Queries:

- Using the **weight** schema, display all visit-to-visit weight changes and order the results from greatest to smallest weight change. The result set should look as follows:

	participant_id	visit_type	weight	visit_type	weight	diff
▶	1	0	68.04	4	65.77	-2.27
	1	8	64.86	12	63.92	-0.94
	1	4	65.77	8	64.86	-0.91
	2	0	91.63	4	92.08	0.45

Hints:

- Be sure you've completed the data entry element from assignment 15 to ensure your results match the above exactly
 - Only display records showing differences of exactly 1 visit (4 consecutive weeks apart)
 - You will receive an error if you perform subtractions on visit type values that result in a negative value (due to the field being unsigned), so filter your results accordingly to prevent this error
- Run the code given to create the schema called **clinics** and its corresponding tables. No primary or foreign keys have been defined, and no referential integrity has been enforced. Write a query involving a FULL JOIN that shows clinic ID, location category, and participant ID. The results should show
 - Clinics that have no associated participants
 - Participants recorded at clinics that don't exist in the clinics table
 - Participants with no clinic information at all

In-Class Assignment 17

- Run the code given to create the schema called **class** and its corresponding tables. Help create a grading list for our teaching team that assigns students as follows:
 - Anjile: students with first names starting with A-H
 - Ifrah: students with first names starting with I-P
 - Charlene: students with first names starting with Q-Z

Create a CTE that creates the grading pairs and call it **grading list**

Hints:

- Utilize the following syntax as an example

```
var_name REGEXP '^[A-D]'
```

This returns values of column var_name that begin with letters A-D.

Then, write a query to determine whether the grading is evenly split between the teaching team (i.e., whether they are grading a similar number of students). Call the variable showing the number of students per teaching team member **student_count**.

Answer the following questions in Canvas:

- Does it look like grading is evenly split? If not, how would you redistribute the grading?