**Assignment: PySports: Basic Table Joins**

For this assignment, you will be learning how to construct and execute aggregate queries in a MySQL database.

**1. MySQL Instructions**

* MySQL: Inner Join
  + SELECT <columns> FROM <table1> INNER JOIN <table2> ON <table1.column> = <table2.column>
  + Example
    - Query

Graphical user interface, text, application

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* + - Results

Table

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* MySQL: Left Outer Join
  + SELECT <columns> FROM <table1> LEFT OUTER JOIN <table2> ON <table1.column> = <table2.column>;
  + Example - Notice that the results from this are the same as the results above.
    - Query

Text

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* + - Output

Table

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* MySQL: Right Outer Join
  + SELECT <columns> FROM <table1> RIGHT OUTER JOIN <table2> ON <table1.column1> = <table2.column2>;
  + Example

Text

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* + Output

Table

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* MySQL: Where Clause
  + SELECT <columns> FROM <table> WHERE <column> = <value>;
  + Example

Graphical user interface, text, application

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* + Output

Table

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**2. Instructions**

* Create a new directory under **csd-310** and name it **module\_9**.
* Create a new file under the **module\_9** directory and name it **pysports\_join\_queries.py**.
* Add the appropriate Python code to connect to the **pysports** database.
* Using the output I have provided and the sample queries, create an INNER JOIN query to connect the **player** and **team** tables by **team\_id** and display the results. Make sure your output matches the Expected Output.
  + Expected Output:

Text

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**3. GitHub**

* Stage, commit, and push your work to GitHub.

**4. Deliverable**

* Link to your GitHub repository.
* pysports\_join\_queries.py

#2 Project

**Assignment: PySports: Update & Deletes**

For this assignment, you will be learning how to update and delete records from a MySQL database.

###### 1. MySQL Instructions

* MySQL: Update
  + UPDATE <table> SET <columns> WHERE <column> = <value>;
  + Example

Graphical user interface, text, application

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* MySQL: Delete
  + DELETE FROM <table> WHERE <column> = <value>;
  + Example

Graphical user interface, application

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* MySQL: Insert
  + INSERT INTO <table> (<columns>) VALUES ( <values> );
  + Example

Graphical user interface

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###### 2. Instructions

* Create a new file under the **module\_9** directory and name it **pysports\_update\_and\_delete.py**.
* Using the example code I provided, connect to the **pysports** database.
* Using the example code I have provided, **insert** a new record into the **player** table for **Team Gandalf**.
  + team\_id = 1
* Using the example code I provided, execute a **select query** to display the player records and take a screenshot of the results. (I want to verify the record was inserted successfully).
  + This query should include the **INNER JOIN**; I want to see the **team\_name** field and not the **team\_id** in the output window.
* Using the example code I provided, update the newly inserted record by changing the players team to **Team Sauron**.
  + team\_id = 2
* Using the example code I provided, execute a **select query** to display the updated record and take a screenshot of the results.
  + This query should include the **INNER JOIN**; I want to see the **team\_name** field and not the **team\_id** in the output window.
* Using the example code I provided, execute a **delete query** to remove the updated record.
* Using the example code I provided, execute a **select query** to display all the records in the player table and take a screenshot of the results.
  + This query should include the**INNER JOIN**; I want to see the **team\_name** field and not the **team\_id** in the output window.
* Make sure your output matches the expected output (this is gradable.)
  + Expected Output:

A close-up of a document

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A screenshot of a computer

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Text

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###### 3. GitHub

* Stage, commit, and push your work to GitHub.

###### 4. Deliverable

* Link to your GitHub repository.
* pysports\_update\_and\_delete.py
* Either a Word doc with your screenshots, or the screenshots as a graphic files.