**Discussion Question: SQL**

For this module's discussion board assignment respond to **one**the following topics:

1. Provide two examples of Inner joins. For your examples, show the contents of each table, then show the results of the join. Would any other SQL statement provide the same results? If so, include it in your response.

For this week's module, we learned the difference between inner, outer, left, and right joins. The join clause allows us to combine rows from other tables when creating tables. Two examples of inner joins are included below. The WHERE clause will perform the same function as the inner join for both examples.

**EXAMPLE ONE:**

Employees Table:

| EmployeeID | Name | ProjectID |

|------------------|------------|--------------|

| 1 | Jane | 101 |

| 2 | Carrie | 102 |

| 3 | Billy | 103 |

| 4 | Carl | 101 |

Projects Table:

| ProjectID | ProjectName |

|---------------|----------------------------|

| P101 | Sidney High School |

| P102 | City of Lincoln |

| P104 | Bob’s Super Mart |

| P105 | Walmart |

SELECT Employees.Name, Projects.ProjecttName

FROM Employees

INNER JOIN Projects ON Employees.ProjectID = Projets.ProjecttID;

Result after inner join:

| Name| ProjectName |

|---------|------------------------------|

| Jane | Sidney High School |

| Carl | Bob’s Super Mart |

| Billy | City of Lincoln |

Example One Alternative:

SELECT Employees.Name, Projects.ProjectName

FROM Employees, Projects

WHERE Employees.ProjectID = Projects.ProjectID;

**EXAMPLE TWO:**

Product Table:

| ProductID | ProductName | Price |

|---------------|--------------------|---------|

| 1 | Remote | 15.99

| 2 | AA Batteries | 11.99

| 3 | Clipboard | 4.79

Orders Table:

| OrderID | ProductID | Quantity |

|------------|---------------|-------------|

| 1343 | 1 | 1 |

| 2432 | 2 | 2 |

| 3122 | 3 | 10 |

SELECT Orders.OrderID, Product.ProductName, Orders.Quantity, Product.Price

FROM Orders

INNER JOIN Product ON Orders.ProductID = Product.ProductID;

Result after inner join:

| OrderID | ProductName | Quantity | Price |

|------------|--------------------|-------------|---------|

| 1343 | Remote | 1 | 15.99

| 2432 | AA Batteries | 2 | 11.99

| 3122 | Clipboard | 10 | 4.79

Example Two Alternative:

SELECT Orders.OrderID, Products.ProductName, Orders.Quantity, Products.Price

FROM Orders, Products

WHERE Orders.ProductID = Products.ProductID;

**Reference**

Forta, B. (2018). *SQL in 10 Minutes a Day, Sams Teach Yourself*. Pearson Education (Us. https://platform.virdocs.com/read/1347763/4/#/4/2/6,/1:0,/1:0

1. Provide two examples of Outer joins. For your examples, show the contents of each table, then show the results of the join. Would any other SQL statement provide the same results? If so, include it in your response.
2. Provide two examples of Left/right joins. For your examples, show the contents of each table, then show the results of the join. Would any other SQL statement provide the same results? If so, include it in your response.

***Before you submit your thread, put your name in the subject line.***

**Assignment Requirements and Grading:**

1. An initial post is due by **Thursday, 11:59 p.m., CST**.
2. For the initial post to be considered substantive, it should fully cover the topic(s) being presented. Single-sentence definitions or responses will not be awarded points.
3. Submit your post by clicking on the **Assignment Link** above, then **Create Thread**. You must create a thread in order to view your peers' posts. Tip: Create your post in a Word document and then copy and paste your work into the thread.
4. A minimum of three (3) responses, **to the original threads of other students**,, of 100-200 words each are due by **Sunday, 11:59 p.m., CST**.
5. To view the rubric grading criteria, click on the following link: [Discussion Board Grading Rubric.](https://content.bellevue.edu/cst/csd/rubricdbv3.pdf)

**(50 points)**

Brett, you did a fantastic job creating scripts that accurately demonstrate your ability to create tables in MySQL and utilize inner joins! It was smart to use our assignment as an example! It really helps to connect with everything we have and are learning. It was also refreshing to see that I am not the only one who makes simple mistakes that result in my code not popping up. For example, in your first example, how you typed films instead of films resulted in an error. I often make errors like this. It was also nice to see that it looks like you operate on MacOS like I do.

Truman, you did a really great job on your post for this module! You did a comprehensive job walking through the code. I am impressed that you created a testing database to experiment with MySQL. I have done the same thing, so knowing I am not the only one is intriguing! I know our books strongly encourage us, too, but I did not know if it was just me following that. I should have thought about utilizing it for my post this week. I am glad that you mentioned tables must share a key in order to be integrated with an inner join.

Jessica, I enjoyed reading your post and think you did a nice job. Your tables and SQL queries show your understanding of left outer joins! You are right that a LEFT OUTER JOIN can be achieved using an INNER JOIN with left-sided rows. Which of these methods do you believe to be more efficient? I think LEFT OUTER JOIN is the better choice to utilize since it is less complex than the alternative. I did notice one small thing when reading the SQL query for the LEFT OUTER JOIN. Where it says SELECT Customers.CustomerID, Customer.Name, NULL AS OrderID, NULL AS Total – I think it should be Customers.Name instead.