Relational Databases with MySQL Week 4 Research Assignment

**Points possible:** 30

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| Category | Criteria | % of Grade |
| Accuracy | Is the information accurate? | 25 |
| Organization | Is the essay clean and organized? Ideas are presented in a logical order. | 25 |
| Citations | Students reference and cite at least 5 sources. | 25 |
| Completeness | All requirements of the assignment are complete. | 25 |

**Instructions:** In however many words necessary, write a thorough essay response to each of the below prompts. Be sure to include at least 5 references for this assignment. Do not copy and paste text from the internet or any other source; use the information you find in your research, summarize, in your own words, the concepts. Plagiarism will result in a zero for the assignment as well as disciplinary actions. Push this document to your GitHub repository for this week. Add the URL for this week’s repository to this document where instructed and submit this document to your instructor when complete.

**What are stored procedures?**

A stored procedure is a prepared SQL code that you can save, so the code can be reused over and over again. You can also pass parameters to a stored procedure, so that the stored procedure can act based on the parameter values that is passed.

**What are some logical constructs that can be used in a stored procedure (i.e. loops, conditionals, parameters, etc…)?**

Can use a while, break, continue statement.

Can use IF, ELSE statement.

Parameter.

**In your own words explain how each of these constructs is used. Provide a syntactical example of each.**

WHILE (condition)

BEGIN (put in the code to run while the condition is true)

CONTINUE (will go through the loop again but won’t run anything after the Continue statement)

END (to end the code)

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* The WHILE statement is used to repeatable execute a block of SQL statements. Is will continue to be executed until the stamen is no longer true. We can use this loop to make finding information out easily or to add incrementing data.
* The break statement is put in place to end the code forcibly.
* The continue statement is put in place to restart a while statement, anything after the CONTINUE statement are not executed.

IF (employee exists)

Begin (something about the employee)

End

ELSE

Begin (something else about employee because top statement was false)

End

* This allows us to have a statement that should be true and if not, we have a backup for the program to run threw.

Will have to create the procedure first

Create procedure test (

The tables you want

)

AS

BEGIN

Put in the parameters you want (like what tables or what type of employee, will inner join tables)

END

Go

* This will help if you only want to see a set type of data for example like if you want to see all the female employees who work in sales.

**What is your favorite thing you learned this week?**

I liked learning about the loops. It’s nice to know if I have to add data that can increment its easily done with a loop.

**References:**

[**https://www.w3schools.com/sql/sql\_stored\_procedures.asp**](https://www.w3schools.com/sql/sql_stored_procedures.asp)

[**https://www.essentialsql.com/using-while-statement-stored-procedures/**](https://www.essentialsql.com/using-while-statement-stored-procedures/)

**URL to GitHub Repository:**