Relational Databases with MySQL Week 2 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.

**Look up 10 different functions available in MySQL that were not covered in the video curriculum. What do they do and how can you use them?**

1. **ABS-Returns the value of a number**
2. **SUM-Calculates the sum of set values**
3. **CURRENT\_TIME-Returns the current time**
4. **FROM\_DAYS-Returns a date from numeric date value**
5. **DAYOFYEAR-Returns day of year any given date**
6. **CASE-Goes through conditions and returns value when condition is found**
7. **NULLIF-Compares 2 expressions and return NULL is they’re equal.**
8. **USER-Returns the current MySQL user and host name.**
9. **SPACE-Returns a string of specific numbers and space characters**
10. **SUBSTR-Extracts a substring from a string but can start at ANY position**

**Write a query using each of the 10 functions you described above (10 queries in total, one for each function).**

**11.) SELECT ABS(144);**

**12.) SELECT SUM(Diapers) AS TakeOut FROM Trash;**

**13.) SELECT CURRENT\_TIME( );**

**14.) SELECT FROM\_DAYS(365);**

**15.) SELECT DAYOFYEAR(“2016-11-08”);**

1. **) SELECT BreakfeastClub, Personnel**

**CASE**

**When Personnel > 5 THEN “The personnel is greater than 5”**

**When Personnel = 5 THEN “The personnel is 5”**

**ELSE “The personnel is under 5”**

**END**

**FROM BreakfeastClub**

**17.)SELECT NULLIF(100,100);**

**18.) SELECT USER( );**

**19.) SELECT SPACE(26);**

**20.) SELECT SUBSTR(“10 FUNCTIONS”, 10, 1) AS ExtractString;**

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

**My favorite thing I learned this week was functions because it felt familiar versus Joins. But I like MySQL I can’t wait to see what next week brings.**

**References:**

**<https://www.w3resource.com/mysql-exercises/join-exercises/write-a-query-to-display-the-job-title-and-average-salary-of-employees.php>**

**<https://www.youtube.com/watch?v=ffJ0jCuyVmc>**

**<https://quizlet.com/87986177/operators-in-the-where-clause-flash-cards/>**

**<http://www.mysqltutorial.org/mysql-functions.aspx>**

**<https://www.w3schools.com/sql/sql_ref_mysql.asp>**

**URL to GitHub Repository:**

**<https://github.com/ash2042987/WEEK8RelationsandFunctions>**