Relational Databases with MySQL Week 3 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 ten different data types MySQL provides?**

1. **Format-formats a number and rounds to number of decimal places**
2. **Find\_In\_Set-returns the position of string within strings**
3. **Instr-returns the position of the first string in another string**
4. **Length-returns the length of a string**
5. **Locate-function returns the first occurence within the substring**
6. **Mid-function that extracts substring from string**
7. **Abs-returns the absolute value of a number**
8. **Log-returns natural logarithm of the number entered**
9. **Rand-returns random number**
10. **Case- goes through conditions and returns a value when the first condition is met**

**How is each data type you described used, and what makes it unique? Each data type is unique because each one specifies on what its going to do. Each datat ype will take you where you need to go or what info you need.**

1. **select format (100000.01, 5);**
2. **select find\_in\_set(“a” “b,c,d”);**
3. **Select instr (“Promineo Tech”, “2”) as matchposition;**
4. **Select length (“Promineo Tech” as lengthOfString;**
5. **Select locate(“2”, “Promineo Tech” as matchposition;**
6. **Select mid(“Promineo Tech”, 2. 3) as extractString;**
7. **Select abs(144);**
8. **Select log(12);**
9. **Select rand();**
10. **Select userID, Qty,**

**Case**

**When qty > 5 then “qty is more than 5”**

**When qty = 5 then “qty is 5”**

**Else “qty is under 5”**

**End**

**From GroceryList;**

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

**My favorite thing I learned this week was Entity Relationship Databases. I didn’t know about [www.draw.io](http://www.draw.io) and it’s exciting to have a new resource.**

**References:**

**[https://www.w3schools.com/sql/sql\_ref\_mysql.asp](https://www.w3schools.com/sql/sql_ref_mysql.asp" \t "https://mail.google.com/mail/u/2/" \l "inbox/_blank)**

**[https://dev.mysql.com/doc/refman/8.0/en/data-types.html](https://dev.mysql.com/doc/refman/8.0/en/data-types.html" \t "https://mail.google.com/mail/u/2/" \l "inbox/_blank)**

**[https://www.tutorialspoint.com/mysql/mysql-data-types.htm](https://www.tutorialspoint.com/mysql/mysql-data-types.htm" \t "https://mail.google.com/mail/u/2/" \l "inbox/_blank)**

**[http://www.peachpit.com/articles/article.aspx?p=30885&seqNum=7](http://www.peachpit.com/articles/article.aspx?p=30885&seqNum=7" \t "https://mail.google.com/mail/u/2/" \l "inbox/_blank)**

**[https://www.techonthenet.com/mysql/datatypes.php](https://www.techonthenet.com/mysql/datatypes.php" \t "https://mail.google.com/mail/u/2/" \l "inbox/_blank)**

**[https://www.w3schools.com/sql/sql\_datatypes.asp](https://www.w3schools.com/sql/sql_datatypes.asp" \t "https://mail.google.com/mail/u/2/" \l "inbox/_blank)**

**[https://www.w3resource.com/mysql/mysql-data-types.php](https://www.w3resource.com/mysql/mysql-data-types.php" \t "https://mail.google.com/mail/u/2/" \l "inbox/_blank)**

**[http://www.mysqltutorial.org/mysql-data-types.aspx](http://www.mysqltutorial.org/mysql-data-types.aspx" \t "https://mail.google.com/mail/u/2/" \l "inbox/_blank)**

**URL to GitHub Repository:**

**<https://github.com/ash2042987/week9Relational-Databases-with-MySQL>**