

## Jonah Aney CSD310 Module 5.2 Assignment: My SQL Functions

Database and table creation:

```
mysql> CREATE DATABASE test_db;
Query OK, 1 row affected (0.02 sec)

mysql> USE test_db;
Database changed
mysql> CREATE TABLE family (
  ->     first_name TEXT,
  ->     last_name TEXT,
  ->     birth_date DATE,
  ->     fav_color TEXT
  -> );
Query OK, 0 rows affected (0.05 sec)
```

```
mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| movies |
| mysql |
| performance_schema |
| sakila |
| sys |
| test_db |
| world |
+-----+
8 rows in set (0.02 sec)
```

```
mysql> SHOW TABLES;
+-----+
| Tables_in_test_db |
+-----+
| family |
+-----+
1 row in set (0.01 sec)
```

```
mysql> INSERT INTO FAMILY (first_name, last_name, birth_date, fav_color)
  -> values
  -> ('Nicole', 'Aney', '1985-10-30', 'Red'),
  -> ('Holly', 'Aney', '2016-10-30', 'Yellow'),
  -> ('Mackenzie', 'Aney', '2021-06-24', 'Pink');
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

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Family table:

```
mysql> SELECT * FROM family;
+-----+-----+-----+-----+
| first_name | last_name | birth_date | fav_color |
+-----+-----+-----+-----+
| Nicole     | Aney      | 1985-10-30 | Red       |
| Holly      | Aney      | 2016-10-30 | Yellow    |
| Mackenzie  | Aney      | 2021-06-24 | Pink      |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

Using the 'YEAR' command with the alias, 'birth\_year' to show each member's birth year only.

```
mysql> select first_name, year(birth_date) as birth_year
-> from family;
+-----+-----+
| first_name | birth_year |
+-----+-----+
| Nicole     | 1985       |
| Holly      | 2016       |
| Mackenzie  | 2021       |
+-----+-----+
3 rows in set (0.01 sec)
```

Using the 'DATEDIFF' command with the alias, 'This many days old!' to show how many days each family member has been alive for fun trivia

```
mysql> select first_name, datediff(curdate(), birth_date) as "This_many_days_old!"
-> from family;
+-----+-----+
| first_name | This_many_days_old! |
+-----+-----+
| Nicole     | 14409               |
| Holly      | 3086                |
| Mackenzie  | 1388                |
+-----+-----+
3 rows in set (0.00 sec)
```

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Using the 'UPPER' command with alias "ColorsAllCaps" to change colors to uppercase for showcasing specific data to a team or a change in preference of how the data appears.

```
mysql> select upper(fav_color) as ColorsAllCaps from family;
+-----+
| ColorsAllCaps |
+-----+
| RED           |
| YELLOW        |
| PINK          |
+-----+
3 rows in set (0.00 sec)
```

Using the 'REPLACE' command with the alias "new\_fav\_color" to make updates with data.

```
mysql> select fav_color, replace(fav_color, 'Red', 'Maroon') as new_fav_color from family;
+-----+-----+
| fav_color | new_fav_color |
+-----+-----+
| Red       | Maroon         |
| Yellow    | Yellow         |
| Pink      | Pink           |
+-----+-----+
3 rows in set (0.00 sec)
```

### Functions using today's date, 04-13-2025:

Using 'WEEKOFYEAR' command with the alias "The current week of 2025" in case you are tracking data by the week.

```
mysql> select weekofyear("2025-04-13") as "The current week of 2025";
+-----+
| The current week of 2025 |
+-----+
| 15                        |
+-----+
1 row in set (0.01 sec)
```

Using the 'DAYNAME' command with the alias "Day\_of\_the\_week". Use this to show the day as it might be more meaningful when using or comparing data.

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```
mysql> select dayname ('2025-04-13') as Day_of_the_week;
+-----+
| Day_of_the_week |
+-----+
| Sunday          |
+-----+
```