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5.1 Assignment

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Function 1: CONCAT()

```
mysql> SELECT CONCAT("Rachel ", "Emily ", "Shaw ") AS MyFullName;
+--------------------+
| MyFullName         |
+--------------------+
| Rachel Emily Shaw  |
+--------------------+
1 row in set (0.00 sec)

mysql> |
```

- Used to combine strings together, much like string concatenation in Python.
- The CONCAT() function is useful when a developer needs to combine sperate but relevant strings to simplify the output of queries.

Function 2: FIND_IN_SET()

```
mysql> SELECT FIND_IN_SET("a", "r,a,c,h,e,l,s,h,a,w") AS "LettersInMyName";
+-----------------+
| LettersInMyName |
+-----------------+
|               2 |
+-----------------+
1 row in set (0.00 sec)

mysql> |
```

- Used to find a string in a list of strings, returning the number of times the string appears in the list.
- The FIND_IN_SET() function is useful for avoiding repetition in rows or in situations where you need to know the number of times a value occurs.

Function 3: REPLACE()

```
mysql> SELECT REPLACE("My initials are RES", "RES", "RS") AS "My Initials";
+--------------------+
| My Initials        |
+--------------------+
| My initials are RS |
+--------------------+
1 row in set (0.00 sec)

mysql>
```

- Used to replace strings in a database with new strings
- The REPLACE() function would be helpful if a database developer needed to correct a mistake they made multiple times within the database.