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DataBase Development and Use

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module5.2

The three functions I can review are:

CONCAT - to combine two or three strings together.

CONCAT WS - to combine two or three strings together with a separator.

REPEAT - repeat a string as many times as requested.

Exmaple 1: CONCAT - to combine two or three strings together.

```
1 SELECT CustomerName, CONCAT(Address, " ", PostalCode, " ", City) AS Address  
FROM Customers;
```

If there is a table with broken down names you can also put each expression, or name, together in one return. Or maybe you could inject the data into a string as a variable

fstring \$UserName f"SELECT {name} FROM name_table" in python.

```
2 SELECT CustomerName, CONCAT (FirstName, " ", MiddleName, " ", LastName " ")  
As UserName FROM Customer
```

SQL Statement:

```
SELECT CONCAT("FirstName", "MiddleName ", "LastName") AS ConcatenatedString;
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

Number of Records: 1

ConcatenatedString

FirstNameMiddleName LastName

SQL Statement:

```
SELECT CONCAT ( Address, City, PostalCode ) AS Address FROM Suppliers;
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

Number of Records: 29

Address
49 Gilbert St.LondonaEC1 4SD
P.O. Box 78934New Orleans70117
707 Oxford Rd.Ann Arbor48104
9-8 Sekimai Musashino-shiTokyo100
Calle del Rosal 4Oviedo33007
92 Setsuko Chuo-kuOsaka545
74 Rose St. Moonie PondsMelbourne3058
29 King's WayManchesterM14 GSD

SQL Statement:

```
SELECT CustomerName, CONCAT(Address, " ", PostalCode, " ", City) AS Address  
FROM Customers;
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

Number of Records: 91

CustomerName	Address
Alfreds Futterkiste	Obere Str. 57 12209 Berlin
Ana Trujillo Emparedados y helados	Avda. de la Constitución 2222 05021 México D.F.
Antonio Moreno Taquería	Mataderos 2312 05023 México D.F.
Around the Horn	120 Hanover Sq. WA1 1DP London
Berglunds snabbköp	Berguvsvägen 8 S-958 22 Luleå
Blauer See Delikatessen	Forsterstr. 57 68306 Mannheim
Blondel père et fils	24, place Kléber 67000 Strasbourg
Bólido Comidas preparadas	C/ Araquil, 67 28023 Madrid

Example 2: CONCAT WS - to combine two or three strings together with a separator.

I believe this is best used with data that is numbers that may be difficult to read?

Perhaps dates YEAR-MONTH_DAY, or order ID information. 😊

SQL Statement:

```
SELECT CONCAT_WS("-", OrderID, ProductID, Quantity) AS ConcatenatedString FROM OrderDetails ;|
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

Number of Records: 2155

ConcatenatedString
10248-11-12
10248-42-10
10248-72-5
10249-14-9
10249-51-40
10250-41-10
10250-51-35
10250-65-15

Example 3: REPEAT- repeat a string as many times as requested.

I think this would be used to check how many times a function or API is being called, to confirm if the request is meeting all the Api pages? I could not get this one to work.

SQL Statement:

```
SELECT REPEAT(ProductName,0)AS OrderProducts FROM Products;
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

Number of Records: 77