

# CONCAT

CONCAT allows you to concatenate 2 or more strings together

## Syntax

CONCAT(expression1, expression2, expression3,...)



# CONCAT

CONCAT function allows you to concatenate 2 or more strings together

## Example

```
SELECT Customer_name,  
CONCAT(city,',',state,',',country)AS address  
FROM customer;
```



# SUBSTRING

SUBSTR function allows you to extract a substring from a string

## Syntax

SUBSTR( string ,[start\_position], [length] )



# SUBSTRING

SUBSTR function allows you to extract a substring from a string

## Example

```
SELECT
    Customer_id,
    Customer_name,
    SUBSTR(Customer_id,1, 2) AS cust_group
FROM customer
WHERE SUBSTR(Customer_id,1, 2) = 'AB';

SELECT
    Customer_id,
    Customer_name,
    SUBSTR(Customer_id,4, 5) AS cust_number
FROM customer
WHERE SUBSTR(Customer_id,1 ,2) = 'AB';
```



# GROUP CONCAT

GROUP CONCAT concatenates input values into a string, separated by Separator

## Syntax

```
GROUP_CONCAT([expression] [Separator "str_value"]);
```



# GROUP CONCAT

GROUP CONCAT concatenates input values into a string, separated by delimiter

## Example

```
SELECT order_id ,  
       GROUP_CONCAT(product_id Separator ' , ')  
FROM sales  
GROUP BY order_id;
```

