

TRIM,LTRIM & RTRIM

TRIM function removes all specified characters either from the beginning or the end of a string

RTRIM function removes all specified characters from the right-hand side of a string

LTRIM function removes all specified characters from the left-hand side of a string

Syntax

`trim( [ leading | trailing | both ] [ trim_character ] from string )`

`rtrim( string, trim_character )`

`ltrim( string, trim_character )`

TRIM,LTRIM & RTRIM

TRIM function removes all specified characters either from the beginning or the end of a string

RTRIM function removes all specified characters from the right-hand side of a string

LTRIM function removes all specified characters from the left-hand side of a string

Example

```
SELECT trim(leading ' ' from ' Start-Tech Academy ')from dual;
```

```
SELECT trim(trailing ' ' from ' Start-Tech Academy ')from dual;
```

```
SELECT trim(both ' ' from ' Start-Tech Academy ')from dual;
```

```
SELECT trim(' Start-Tech Academy ')from dual;
```

```
SELECT rtrim(' Start-Tech Academy ', ' ')from dual;
```

```
SELECT ltrim(' Start-Tech Academy ', ' ')from dual;
```

SUBSTR

SUBSTR function allows you to extract a substring from a string

Syntax

`substr( string, [ start_position ] , [length] )`

SUBSTR

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) cust_number
FROM customer
WHERE SUBSTR(Customer_id ,1, 2) = 'AB';
```

LIST AGGREGATOR

LISTAGG concatenates input values into a string, separated by delimiter

Syntax

LISTAGG (expression, delimiter)

LIST AGGREGATOR

LISTAGG concatenates input values into a string, separated by delimiter

Example

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