

## ORDER BY and DISTINCT

In any e-commerce application, users have the option of sorting the products based on price, rating, etc. Also, for any product, users could know all the distinct brands available for the product.

Let's learn how to retrieve such ordered results and unique data!

### Database

The database contains a

`product` table that stores the data of products like name, category, price, brand and rating. You can check the schema and data of `product` table in the code playground.

### ORDER BY

We use

`ORDER BY` clause to order rows. By default, `ORDER BY` sorts the data in the `ascending order`.



### Syntax

```
1  SELECT
2    column1,
3    column2,
4    ..columnN
5  FROM
6    table_name [WHERE condition]
7  ORDER BY
8    column1 ASC / DESC,
9    cloumn2 ASC / DESC;
```

SQL

## Example

Get all products in the order of lowest

`price` and highest `rating` in "Puma" brand.

```
1  SELECT
2    name,
3    price,
4    rating
5  FROM
6    product
7  WHERE
8    brand = "Puma"
9  ORDER BY
10   price ASC,
```

SQL

Expand

## Output

name	price	rating
Black Shirt	600	4.8
Blue Jeans	800	3.6
Blue Shirt	1000	4.3

Try it Yourself!

- Get all the shirts from

`product` table in the descending order of their `rating` and in the ascending order of `price` .

Note: Assume the products as shirts, if the

`name` contains "Shirt".

## DISTINCT

`DISTINCT` clause is used to return the distinct i.e unique values.

## Syntax

```
1  SELECT
2    DISTINCT column1,
3    column2
```

SQL

```
3     columnZ, ...
4     columnN
5 FROM
6     table_name
7 WHERE
8     [condition];
```

### Example

- Get all the brands present in the `product` table.

SQL

```
1 SELECT
2     DISTINCT brand
3 FROM
4     product
5 ORDER BY
6     brand;
```

### Output

Brand
Absa
Apple
...

Try it Yourself!

- Get a list of distinct categories available in the `product` table