

## Coding Practice- 03


With this practice set, you'll get thorough with:

- How to filter based on multiple conditions and how to apply filters within a specified range.
- Sort and limit the entries of the output making it easier to fetch meaningful insights.

Here, the database consists of a `product` table that stores the `name` , `category` , `price` , `rating` and `brand` of the products. Let's go!


**Note: Expected output format for all the queries, unless specified.**

name	category	price	brand	rating
Black Shirt	Clothing	900	Puma	4.8
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1. Get all the products from "Roadster", "Levi's" or "Puma" brands. 

**Note:** Output must contain rows in the ascending order of `price` of the product.


```
SELECT * FROM product WHERE brand IN ("Levi's", "Roadster", "Puma") ORDER BY price ASC;
```

2. Get all the products that are in the price range of 750 to 1000. 

**Note:**

- Include the products with price 750 and 1000 as well.
- Output must contain rows in the ascending order of `price` of the product. If two products are of same price, then sort by `name` in the alphabetical order.

```
SELECT * FROM product WHERE price BETWEEN 750 AND 1000 ORDER BY price ASC, name ASC;
```

3. User wants to purchase clothes that have high-rating and low-cost.  
Get the products from the "Clothing" category as per the user requirements, i.e., 

- Keep highly-rated products at the top
- Sort the price from low to high

```
SELECT * FROM product WHERE category = 'Clothing' ORDER BY rating DESC, price ASC;
```

4. List all the brands available in the ascending order.



**Note:** Output must contain rows in the alphabetical order of name of the `brand`

Expected Output Format:

brand
...

```
SELECT DISTINCT brand FROM product ORDER BY brand ASC;
```

5. User has checked first 10 products keeping highly-rated products at the top. Help the user check the details of next 10 products.



**Note:** If two products have the same rating, then sort by `name` in the alphabetical order.

```
SELECT * FROM product ORDER BY rating DESC, name ASC LIMIT 10 OFFSET 10;
```

6. Get all the details of the products from `product` table whose



- `brand` is Puma or Denim *and*
- `rating` greater than 4
- Get products with lowest price first

```
SELECT * FROM product WHERE brand IN ('Puma', 'Denim') AND rating > 4 ORDER BY price ASC;
```

### Product Table

name	category	price	brand	rating
Blue Shirt	Clothing	750	Denim	3.8
Blue Jeans	Clothing	800	Puma	3.6
Black Jeans	Clothing	750	Denim	4.5
Blue Shirt	Clothing	1000	Puma	4.3
Chocolate Cake	Food	25	Britannia	3.7
Strawberry Cake	Food	60	Cadbury	4.1

name	category	price	brand	rating
Chocolate Cake	Food	60	Cadbury	2.5
Strawberry Cake	Food	10	Britannia	4.6
Smart Watch	Gadgets	17000	Apple	4.9
Smart Cam	Gadgets	2600	Realme	4.7
Smart TV	Gadgets	40000	Sony	4
Bourbon Small	Food	10	Britannia	3.9
Bourbon Special	Food	15	Britannia	4.6
Bourbon With Extra Cookies	Food	30	Britannia	4.4
White Shirt	Clothing	700	Denim	4.3
Black Shirt	Clothing	600	Puma	4.8
Black T-Shirt	Clothing	600	Roadster	4.2
White T-Shirt	Clothing	700	Levi's	4
Blue T-Shirt	Clothing	600	Nike	4.7
Realme Smart Band	Gadgets	3000	Realme	4.6
Raw Cashew	Food	370	Absa	3.9
Cashew Nuts	Food	550	Upcrop	4.3
Chocolate Cashew	Food	670	Urban Platter	3.5
Potato Chips India's Magic Masala	Food	42	Lay's	4.4
Banana Chips	Food	550	Calicut Kerala	4.3
Potato Chips Cream & onion	Food	63	Lay's	4.5
Potato Chips Classic Salted	Food	45	Lay's	4
Harry Potter and the Philosopher's Stone	Novel	222		4.7

name	category	price	brand	rating
Harry Potter and the Chamber of Secrets	Novel	343		4.4
Harry Potter and the Prisoner of Azkaban	Novel	284		4.2
Harry Potter and the Goblet of Fire	Novel	431		4.6
OnePlus 6T	Smartphone	32990	OnePlus	4.5
Redmi K20	Smartphone	24999	Redmi	4.1