Basic Filtering and Sorting - Task 2

RDBMS used : MySql

- ➢ **Displaying data in "products" table**

  select * from products;

prod_id	prod_name	category	price	color	size	gender
1001	sneakers	casual	2500	dark brown	6	1
1002	loafers	formal	3500	deep black	7	1
1003	boots	semi-formal	3000	black	5	0
1004	flip-flops	casual	500	blue	5	0
NULL	NULL	NULL	NULL	NULL	NULL	NULL

- ➢ **Conditions using "where" clause**

  select * from products where price<3000;

prod_id	prod_name	category	price	color	size	gender
1001	sneakers	casual	2500	dark brown	6	1
1004	flip-flops	casual	500	blue	5	0
NULL	NULL	NULL	NULL	NULL	NULL	NULL

  select * from products where category in ("casual","formal");

prod_id	prod_name	category	price	color	size	gender
1001	sneakers	casual	2500	dark brown	6	1
1002	loafers	formal	3500	deep black	7	1
1004	flip-flops	casual	500	blue	5	0
NULL	NULL	NULL	NULL	NULL	NULL	NULL

  select prod_name, price, size from products where gender=1;

prod_name	price	size
sneakers	2500	6
loafers	3500	7

- ➢ **ORDER BY clause**

  select * from products order by price;

prod_id	prod_name	category	price	color	size	gender
1004	flip-flops	casual	500	blue	5	0
1001	sneakers	casual	2500	dark brown	6	1
1003	boots	semi-formal	3000	black	5	0
1002	loafers	formal	3500	deep black	7	1
NULL	NULL	NULL	NULL	NULL	NULL	NULL

select * from products order by size desc;

prod_id	prod_name	category	price	color	size	gender
1002	loafers	formal	3500	deep black	7	1
1001	sneakers	casual	2500	dark brown	6	1
1003	boots	semi-formal	3000	black	5	0
1004	flip-flops	casual	500	blue	5	0
NULL	NULL	NULL	NULL	NULL	NULL	NULL

select * from products order by size, prod_id desc;

prod_id	prod_name	category	price	color	size	gender
1004	flip-flops	casual	500	blue	5	0
1003	boots	semi-formal	3000	black	5	0
1001	sneakers	casual	2500	dark brown	6	1
1002	loafers	formal	3500	deep black	7	1
NULL	NULL	NULL	NULL	NULL	NULL	NULL

➤ **Conditions using AND/OR**

  i.   **Using only AND**

select * from products where category="casual" and price>2000;

prod_id	prod_name	category	price	color	size	gender
1001	sneakers	casual	2500	dark brown	6	1
NULL	NULL	NULL	NULL	NULL	NULL	NULL

  ii.   **Using only OR**

select * from products where color="blue" or category="semi-formal";

prod_id	prod_name	category	price	color	size	gender
1003	boots	semi-formal	3000	black	5	0
1004	flip-flops	casual	500	blue	5	0
NULL	NULL	NULL	NULL	NULL	NULL	NULL

  iii.   **Using combination of AND and OR**

select * from products where price<3000 and (size=5 or size=6);

prod_id	prod_name	category	price	color	size	gender
1001	sneakers	casual	2500	dark brown	6	1
1004	flip-flops	casual	500	blue	5	0
NULL	NULL	NULL	NULL	NULL	NULL	NULL