

Simple Aggregation and Grouping- Task 3

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

➤ **Using Aggregate functions and GROUP BY**

i. MIN/MAX

select min(price) as Minimum_Price from products;

	Minimum_Price
▶	500

select max(size) from products;

	max(size)
▶	7

select max(price) from products where gender=0;

	max(price)
▶	3000

select category, min(price) from products group by category;

	category	min(price)
▶	casual	500
	formal	3500
	semi-formal	3000

ii. COUNT

select count(*) from products;

	count(*)
▶	4

select category, count(prod_name) as Prod_Count from products group by category;

	category	Prod_Count
▶	casual	2
	formal	1
	semi-formal	1

SELECT gender, count(DISTINCT prod_name) as Gender_wise_count from products group by gender;

	gender	Gender_wise_count
▶	0	2
	1	2

iii. SUM

select sum(price) as TOTALPRICE from products;

	TOTALPRICE
▶	9500

select category, sum(price) as TOTALPRICE from products group by category;

	category	TOTALPRICE
▶	casual	3000
	formal	3500
	semi-formal	3000

iv. AVG

select avg(price) from products where gender=1;

	avg(price)
▶	3000.0000

select category, avg(price) as AVGPRICE from products group by category;

	category	AVGPRICE
▶	casual	1500.0000
	formal	3500.0000
	semi-formal	3000.0000

➤ **Using HAVING clause**

select category, sum(price) from products group by category having sum(price)>3000;

	category	sum(price)
▶	formal	3500

select category, count(prod_name) as Prod_Count from products group by category having Prod_Count<2;

	category	Prod_Count
▶	formal	1
	semi-formal	1