DBMS_CELESTE_QueryResult

Group members: Aarushi Verma(2023013), Aditi Aryan(2023037), Bhuvika Mehta(2023172), Varsha Ganesh(2023583)

1. Admin: Add a new product

QUERY:

INSERT INTO Product (Product_Name, Brand_Name, Category, Price, Stock_Quantity, Image_URL, Description, Gender, Colour, Size)

VALUES ('Luxury Watch', 'Sonata', 'WATCH', 5000.00, 10, 'image_url', 'Premium luxury watch', 'Male', 'Black', 'Medium');

SELECT * FROM PRODUCT WHERE Product_Name='Luxury Watch';

OUTPUT:

0	248 20:10:2	7 INSERT INTO	Product (Produc	t_Name, Brar	nd_Name, C	ategory, Price, Stoc	ck_Quantity, Ima	age_URL, Description, Ge	nder,	1 row(s) aff	fected
•	249 20:10:2	7 SELECT * FRO	M PRODUCT W	HERE Produ	uct_Name='l	Luxury Watch' LIMI	T 0, 1000			1 row(s) ref	tumed
	I				_						
	Product_ID	Product_Name	Brand_Name	Category	Price	Stock_Quantity	Image_URL	Description	Gender	Colour	Size
>	Product_ID	Product_Name Luxury Watch	Brand_Name Sonata	Category	Price 5000.00	Stock_Quantity		Description Premium luxury watch	Gender Male	Colour	Size Medium

2. Admin: Delete a product

QUERY:

SELECT Product_ID FROM Product WHERE Product_Name='Luxury Watch'; DELETE FROM Product WHERE Product_Id=92;

OUTPUT:



3. Admin: Update a product details

QUERY:

UPDATE Product

SET Price = 4500.00, Stock_Quantity = 15

WHERE Product_ID = 88;

OUTPUT:

252 20:13:17 UPDATE Product SET Price = 4500.00, Stock_Quantity = 15 WHERE Product_ID = 88 0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0

4. Admin: Supplier name of a category

QUERY:

SELECT DISTINCT P.Category, S.Supplier_Name FROM Product P NATURAL JOIN Supplier S WHERE P.Category = 'Watch';

OUTPUT:

	Category	Supplier_Name
•	WATCH	Titan Company Ltd
	WATCH	Titan Fastrack
	WATCH	Casio India Pvt Ltd
	WATCH	Timex Group India
	WATCH	Seiko Corp India
	WATCH	MK India Trading
	WATCH	Police India
	WATCH	Citizen India Ltd
	WATCH	DW India Pvt Ltd
	WATCH	Tata Sonata Ltd

5. Admin: Total sales in one day

QUERY:

SELECT SUM(OH.Grand_Total) AS Total_Sales FROM Order_History OH WHERE DATE(OH.Date_of_Ordering) = '2024-12-07%';

OUTPUT:



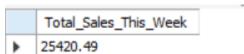
6. Admin: Total sales in one week

QUERY:

SELECT SUM(OH.Grand_Total) AS Total_Sales_This_Week FROM Order History OH

WHERE DATE(OH.Date_of_Ordering) BETWEEN DATE_SUB('2024-12-07', INTERVAL 7 DAY) AND '2024-12-07'; -- USE "CURDATE()" : FOR RECENTLY PLACED ORDERS

OUTPUT:



7. Admin: Top 5 products in a week

```
QUERY:
SELECT

p.Product_ID,
p.Product_Name,
COUNT(o.Product_ID) AS Order_Count,
SUM(o.Quantity) AS Total_Quantity_Sold
FROM All_Orders o
JOIN Order_History oh ON o.Order_ID = oh.Order_ID
JOIN Product p ON o.Product_ID = p.Product_ID
WHERE DATE(oh.Date_of_Ordering) BETWEEN DATE_SUB('2024-12-15', INTERVAL 7 DAY)
AND '2024-12-15'
GROUP BY p.Product_ID, p.Product_Name
ORDER BY Total_Quantity_Sold DESC
LIMIT 5;
```

OUTPUT:

_				
	Product_ID	Product_Name	Order_Count	Total_Quantity_Sold
•	20	Skybags Backpack	2	6
	18	Baggit Tote Bag	1	2
	7	Timex Expedition	1	2
	19	Lavie Sling Bag	1	2
	13	Oakley Sports Sunglasses	1	2

8. Admin: Updating order status and payment status

QUERY:

UPDATE Order_History SET Order_Status = 'Delivered' WHERE Order ID = 1;

UPDATE Payment

SET Payment Status = 'Completed'

WHERE Payment_ID = (SELECT Payment_ID FROM Order_History WHERE Order_ID = 1);

SELECT oh.Order_ID, oh.Customer_ID, oh.Grand_Total, oh.Order_Status,
 p.Payment_ID, p.Amount, p.Payment_Method, p.Payment_Status
FROM Order_History oh
JOIN Payment p ON oh.Payment_ID = p.Payment_ID
WHERE oh.Order_ID = 1;

OUTPUT:

Before updation (output of select statement):

1			-					_	
		Order_ID	Customer_ID	Grand_Total	Order_Status	Payment_ID	Amount	Payment_Method	Payment_Status
	•	1	12	15420.50	Shipped	1	15420.50	Credit Card	Completed

After updation (output of select statement):

	Order_ID	Customer_ID	Grand_Total	Order_Status	Payment_ID	Amount	Payment_Method	Payment_Status
•	1	12	15420.50	Delivered	1	15420.50	Credit Card	Completed

9. Admin: Top 5 Highest Rated Products

QUERY:

SELECT p.Product_ID, p.Product_Name, s.Supplier_Name, AVG(r.Rating) AS Avg_Rating FROM Product p

JOIN Review r ON p.Product ID = r.Product ID

JOIN Supplier s ON p.Product_ID = s.Supplier_ID

GROUP BY p.Product_ID, p.Product_Name, s.Supplier_Name

ORDER BY Avg Rating DESC

LIMIT 5;

OUTPUT:

	Product_ID	Product_Name	Supplier_Name	Avg_Rating
•	29	Casio Edifice Chronograph	Madura Fashion	5.0000
	27	Fastrack Digital Sports Watch	Wildcraft India	5.0000
	22	Caprese Shoulder Bag	Maui Jim India	5.0000
	10	Ray-Ban Aviator	Bagzone Lifestyles	5.0000
	4	Fastrack Leather Strap Watch	Titan Fastrack	5.0000

Top 5 Lowest Rated Products

QUERY:

SELECT p.Product_ID, p.Product_Name, s.Supplier_Name, AVG(r.Rating) AS Avg_Rating FROM Product p

JOIN Review r ON p.Product ID = r.Product ID

JOIN Supplier s ON p.Product_ID = s.Supplier_ID

GROUP BY p.Product_ID, p.Product_Name, s.Supplier_Name

ORDER BY Avg Rating ASC

LIMIT 5;

OUTPUT:

	Product_ID	Product_Name	Supplier_Name	Avg_Rating
•	16	Carrera Oversized Sunglasses	Seiko Corp India	1.0000
	8	Seiko Premier Automatic	Tommy India Pvt Ltd	1.0000
	20	Skybags Backpack	MK India Trading	2.0000
	25	Titan Edge Ceramic	Safilo India	2.0000
	12	Vincent Chase Polarized Sunglasses	Casio India Pvt Ltd	2.0000

10. Admin: Checking for Customer membership

QUERY:

SELECT Customer_ID, Name, Email_ID, GENDER FROM CUSTOMER WHERE MEMBERSHIP=1;

OUTPUT:

	Customer_ID	Name	Email_ID	GENDER
	1	Aarav Sharma	aarav.sharma@example.com	Male
	3	Rohan Patel	rohan.patel@example.com	Male
	5	Vikram Mehta	vikram.mehta@example.com	Male
	6	Ananya Joshi	ananya.joshi@example.com	Female
	8	Pooja Reddy	pooja.reddy@example.com	Female
	10	Meera Sen	meera.sen@example.com	Female
	12	Nidhi Sharma	nidhi.sharma@example.com	Female
	14	Sanya Kapoor	sanya.kapoor@example.com	Female
	15	Aditya Rao	aditya.rao@example.com	Male
	17	Manish Aggarwal	manish.aggarwal@example.com	Male
	19	Harsh Vardhan	harsh.vardhan@example.com	Male
	20	Tanya Mehta	tanya.mehta@example.com	Female
	22	Kavita Desai	kavita.desai@example.com	Female
	24	Pallavi Ghosh	pallavi.ghosh@example.com	Female
	26	Bhavna Iyer	bhavna.iyer@example.com	Female
	28	Rajni Bala	rajni.bala@example.com	Female
	29	Aditya Iyer	aditya.iyer@example.com	Male
	31	Kabir Malhotra	kabir.malhotra@example.com	Male
	33	Rajat Joshi	rajat.joshi@example.com	Male
	35	Arjun Rao	arjun.rao@example.com	Male
	37	Rahul Bansal	rahul.bansal@example.com	Male
	39	Kunal Gupta	kunal.gupta@example.com	Male
	41	Rishi Sen	rishi.sen@example.com	Male
	43	Manay Choudhury	manav.choudhurv@example.com	Male
	45	Saurabh Trivedi	saurabh.trivedi@example.com	Male
	47	Harsh Vardhan	harsh1.vardhan@example.com	Male
	49	Varun Kapoor	varun.kapoor@example.com	Male
	51	Ankur Dubey	ankur.dubey@example.com	Male
	53	Devansh Yadav	devansh.yadav@example.com	Male
	55	Arnav Saxena	arnav.saxena@example.com	Male
	57	Ujjwal Agrawal	ujjwal.agrawal@example.com	Male
	59	Ritik Sinha	ritik.sinha@example.com	Male
	61 NULL	Vivek Nambiar	vivek.nambiar@example.com	Male
r				

11. Customer: Updating address of a customer

QUERY:

UPDATE CUSTOMER SET ADDRESS="124, MG Road, Mumbai, Maharashtra" WHERE CUSTOMER_ID=1;

SELECT NAME, ADDRESS FROM CUSTOMER WHERE CUSTOMER_ID=1; OUTPUT:

Before updation(output of select statement):

	NAME	ADDRESS
•	Aarav Sharma	123, MG Road, Mumbai, Maharashtra

After updation(output of select statement):

	NAME	ADDRESS
•	Aarav Sharma	124, MG Road, Mumbai, Maharashtra

12. Customer: Updating membership of a customer

CASE1: simply stating the status

QUERY:

UPDATE Customer

SET Membership = CASE

WHEN Membership=1 THEN 0

ELSE 1

END

WHERE Customer ID=1;

SELECT NAME, MEMBERSHIP FROM CUSTOMER WHERE CUSTOMER_ID=1;

OUTPUT:

Before updation:

NAME MEMBERSHIP		1	
Aaray Sharma 1		NAME	MEMBERSHIP
Mai av Silai illa 1	•	Aarav Sharma	1

After updation:

	_	
	NAME	MEMBERSHIP
•	Aarav Sharma	0

CASE2: updation based on some conditions like amount spent QUERY:

```
SET SQL_SAFE_UPDATES = 0;
UPDATE Customer
SET Membership = 1
WHERE Customer_ID IN (
    SELECT Customer_ID FROM (
        SELECT OH.Customer_ID
        FROM Order_History OH
        JOIN Payment P ON OH.Payment_ID = P.Payment_ID
        WHERE P.Payment_Status = 'Completed'
        GROUP BY OH.Customer_ID
        HAVING SUM(OH.Grand_Total) > 50000
    ) AS Subquery
);
SET SQL_SAFE_UPDATES = 1;
```

OUTPUT:

364 22:44:40 UPDATE Customer SET Membership = 1 WHERE Customer_ID IN (SELECT Customer_ID FROM (SELECT OH.Cu... 0 row(s) affected Rows matched: 0 Changed: 0 Warnings: 0

13. Customer: Show all products with their average rating

QUERY:

SELECT P.Product_Name, P.Brand_Name, P.Price, P.Category, P.Colour, P.Gender, P.Size, IFNULL(AVG(R.Rating), 0) AS Avg_Rating FROM Product P LEFT JOIN Review R ON P.Product_ID = R.Product_ID GROUP BY P.Product_ID;

OUTPUT:

333 20:32:18 SELECT P.Product_Name, P.Brand_Name, P.Price, P.Category, P.Colour, P.Gender, P.Size, IFNULL(AVG(R.Rating), 0) AS ... 90 row(s) returned

	Product_Name	Brand_Name	Price	Category	Colour	Gender	Size	Avg_Rating
•	Titan Analog Watch	Titan	5999.00	WATCH	Black	Male	Standard	5.0000
	Titan Raga Women's Watch	Titan	7499.00	WATCH	Rose Gold	Female	Standard	4.0000
	Fastrack Sporty Watch	Fastrack	4299.00	WATCH	Blue	Unisex	Standard	3.0000
	Fastrack Leather Strap Watch	Fastrack	3899.00	WATCH	Brown	Male	Standard	5.0000
	Casio G-Shock	Casio India	10999.00	WATCH	Red	Male	Standard	2.0000
	Casio Sheen Women's Watch	Casio India	8499.00	WATCH	Silver	Female	Standard	4.0000
	Timex Expedition	Timex India	4999.00	WATCH	Green	Unisex	Standard	5.0000
	Seiko Premier Automatic	Seiko India	19999.00	WATCH	Black	Male	Standard	1.0000
	Michael Kors Rose Gold Watch	Michael Kors	15499.00	WATCH	Rose Gold	Female	Standard	4.0000
	Ray-Ban Aviator	Ray-Ban India	8799.00	SUNGLASS	Gold	Unisex	Medium	5.0000
	Ray-Ban Wayfarer	Ray-Ban India	7299.00	SUNGLASS	Black	Unisex	Medium	3.0000
	Vincent Chase Polarized Sung	Vincent Chase	3499.00	SUNGLASS	Brown	Unisex	Large	2.0000
	Oakley Sports Sunglasses	Oakley India	10299.00	SUNGLASS	Grey	Unisex	Medium	5.0000
	Maui Jim Classic Sunglasses	Maui Jim	12499.00	SUNGLASS	Blue	Unisex	Large	4.0000

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14. Sort and filter on the basis of price

QUERY: SELECT P.* FROM Product P WHERE P.Price BETWEEN 5000 AND 10000;

OUTPUT:

	Product_ID	Product_Name	Brand_Name	Category	Price	Stock_Quantity	Image_URL	Description	Gender
•	1	Titan Analog Watch	Titan	WATCH	5999.00	50	https://example.com/titan_analog.jpg	Elegant analog watch with leather strap.	Male
	2	Titan Raga Women's Watch	Titan	WATCH	7499.00	40	https://example.com/titan_raga.jpg	Stylish watch with rose gold finish.	Female
	6	Casio Sheen Women's Watch	Casio India	WATCH	8499.00	20	https://example.com/casio_sheen.jpg	Elegant Sheen series watch for women.	Female
	10	Ray-Ban Aviator	Ray-Ban India	SUNGLASS	8799.00	70	https://example.com/rayban_aviator.jpg	Classic aviator sunglasses with UV protection.	Unisex
	11	Ray-Ban Wayfarer	Ray-Ban India	SUNGLASS	7299.00	65	https://example.com/rayban_wayfarer.jpg	Trendy wayfarer sunglasses for casual wear.	Unisex
	15	Persol Retro Sunglasses	Persol	SUNGLASS	9999.00	25	https://example.com/persol_retro.jpg	Vintage-inspired sunglasses with premium finish.	Unisex
	16	Carrera Oversized Sunglasses	Carrera	SUNGLASS	7799.00	35	https://example.com/carrera_oversized.jpg	Bold oversized sunglasses with unique frame.	Unisex
	21	American Tourister Trolley Bag	American Tourister	BAG	6799.00	40	https://example.com/at_trolley.jpg	Spacious trolley bag with 360-degree wheels.	Unisex
	23	Wildcraft Hiking Backpack	Wildcraft	BAG	5499.00	35	https://example.com/wildcraft_hiking.jpg	Heavy-duty backpack for trekking & hiking.	Unisex
	26	Titan Octane Chronograph	Titan	WATCH	9499.00	25	https://staticimg.titan.co.in/Titan/Catalog/9010	Sporty chronograph with leather strap.	Male
	27	Fastrack Digital Sports Watch	Fastrack	WATCH	5999.00	30	https://staticimg.titan.co.in/Fastrack/Catalog/3	Water-resistant digital sports watch.	Unisex
	32	Timex Expedition Analog-Digital	Timex India	WATCH	6999.00	22	https://cdn.timexindia.com/media/catalog/prod	Durable adventure watch with dual display.	Male
	33	Ray-Ban Clubmaster	Ray-Ban India	SUNGLASS	8799.00	50	https://www.ray-ban.com/next/image?url=http	Classic Clubmaster sunglasses with acetate fra	Unisex
	35	Vogue Oversized Sunglasses	Vogue Eyewear	SUNGLASS	6499.00	35	https://images.vogue-eyewear.com/is/image/V	Oversized sunglasses with gradient lenses.	Female
	42	Caprese Satchel Bag	Caprese	BAG	5499.00	25	https://capresebags.com/cdn/shop/products/1	Chic satchel bag with gold-tone details.	Female
	46	Titan Workwear Analog Watch	Titan	WATCH	7599.00	20	https://staticimg.titan.co.in/Titan/Catalog/1805	Sophisticated workwear watch with metal strap.	Male
	47	Titan Raga Viva Women's Watch	Titan	WATCH	8199.00	18	https://staticimg.titan.co.in/Titan/Catalog/2579	Elegant rose gold watch for women.	Female
	51	Ray-Ban Wayfarer Classic	Ray-Ban India	SUNGLASS	9299.00	40	https://www.ray-ban.com/next/image?url=http	Iconic Wayfarer sunglasses with UV protection.	Unisex
	54	Vogue Cat Eye Sunglasses	Vogue Eyewear	SUNGLASS	6699.00	20	https://images.vogue-eyewear.com/is/image/V	Elegant cat-eye sunglasses for women.	Female
	55	Carrera Square Frame Sungla	Carrera	SUNGLASS	8199.00	22	https://cdn.safilo.com/carrera/products/CARRE	Sporty square frame sunglasses.	Male
	60	American Tourister Trolley Bag	American Tourister	BAG	5999.00	15	https://cdn.american-tourister.com/media/catal	Spacious trolley bag with TSA lock.	Unisex
	65	Daniel Wellington Petite Melrose	Daniel Wellington	WATCH	9999.00	18	https://cdn.shopify.com/s/files/1/0223/7933/93	Minimalist rose gold watch for women.	Female
	68	Timex Expedition Digital Watch	Timex India	WATCH	5499.00	25	https://timexindia.com/media/catalog/product/t	Rugged outdoor digital watch with backlight.	Male

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Sort and filter on the basis of colour

QUERY:
SELECT P.*
FROM Product P

WHERE P.Colour = 'Black';

OUTPUT:

Product_ID	Product_Name	Brand_Name	Category	Price	Stock_Quantity	Image_URL	Description	Gender	Co
1	Titan Analog Watch	Titan	WATCH	5999.00	50	https://example.com/titan_analog.jpg	Elegant analog watch with leather strap.	Male	Bla
8	Seiko Premier Automatic	Seiko India	WATCH	19999.00	15	https://example.com/seiko_premier.jpg	Premium automatic watch with sapphire glass.	Male	Blan
11	Ray-Ban Wayfarer	Ray-Ban India	SUNGLASS	7299.00	65	https://example.com/rayban_wayfarer.jpg	Trendy wayfarer sunglasses for casual wear.	Unisex	Blac
16	Carrera Oversized Sunglasses	Carrera	SUNGLASS	7799.00	35	https://example.com/carrera_oversized.jpg	Bold oversized sunglasses with unique frame.	Unisex	Blan
20	Skybags Backpack	Skybags	BAG	2999.00	70	https://example.com/skybags_backpack.jpg	Durable backpack with multiple compartments.	Unisex	Blac
25	Titan Edge Ceramic	Titan	WATCH	17999.00	20	https://staticimg.titan.co.in/Titan/Catalog/1696	Ultra-thin ceramic watch with sapphire crystal.	Unisex	Blan
27	Fastrack Digital Sports Watch	Fastrack	WATCH	5999.00	30	https://staticimg.titan.co.in/Fastrack/Catalog/3	Water-resistant digital sports watch.	Unisex	Blac
31	Police Men's Chronograph	Police Lifestyle	WATCH	10599.00	18	https://staticimg.titan.co.in/Police/Catalog/P15	Bold chronograph with metal case.	Male	Blan
33	Ray-Ban Clubmaster	Ray-Ban India	SUNGLASS	8799.00	50	https://www.ray-ban.com/next/image?url=http	Classic Clubmaster sunglasses with acetate frame.	Unisex	Blac
40	Lavie Croco Textured Tote	Lavie	BAG	3299.00	45	https://lavieworld.com/cdn/shop/files/BLCO759	Sophisticated tote with crocodile texture.	Female	Blan
43	Wildcraft Duffle Bag	Wildcraft	BAG	3999.00	35	https://www.wildcraft.com/media/catalog/prod	Spacious duffle bag for travel and gym.	Unisex	Blan
46	Titan Workwear Analog Watch	Titan	WATCH	7599.00	20	https://staticimg.titan.co.in/Titan/Catalog/1805	Sophisticated workwear watch with metal strap.	Male	Blan
49	Casio G-Shock Sports Watch	Casio India	WATCH	11499.00	15	https://casioindiashop.com/media/catalog/prod	Rugged G-Shock watch with shock resistance.	Male	Blac
51	Ray-Ban Wayfarer Classic	Ray-Ban India	SUNGLASS	9299.00	40	https://www.ray-ban.com/next/image?url=http	Iconic Wayfarer sunglasses with UV protection.	Unisex	Blac
55	Carrera Square Frame Sungl	Carrera	SUNGLASS	8199.00	22	https://cdn.safilo.com/carrera/products/CARRE	Sporty square frame sunglasses.	Male	Blac
66	Sonata Budget Digital Watch	Sonata	WATCH	2199.00	40	https://sonataindia.com/media/catalog/product	Affordable digital watch with stopwatch.	Unisex	Blac
67	Police Skyline Chronograph	Police Lifestyle	WATCH	10999.00	10	https://cdn.police.com/media/catalog/product/p	Edgy chronograph watch with bold numerals.	Male	Blac
68	Timex Expedition Digital Watch	Timex India	WATCH	5499.00	25	https://timexindia.com/media/catalog/product/t	Rugged outdoor digital watch with backlight.	Male	Blac
71	Daniel Wellington Classic She	Daniel Welling	WATCH	9999.00	14	https://cdn.shopify.com/s/files/1/0223/7933/93	Minimalist black leather strap watch.	Unisex	Bla
74	Oakley Holbrook Prizm Lens	Oakley India	SUNGLASS	11299.00	18	https://www.oakley.com/dw/image/v2/BJCT_P	Polarized lenses with enhanced color contrast.	Male	Blac
81	Skybags Laptop Backpack	Skybags	BAG	2799.00	50	https://www.skybags.co.in/cdn/shop/products/	Padded laptop backpack with water resistance.	Unisex	Blac
87	Citizen Chrono Sports Watch	Citizen Watches	WATCH	18999.00	9	https://www.citizenwatch.com/media/catalog/p	Advanced chronograph watch with tachymeter.	Male	Blan
93	Luxury Watch	Sonata	WATCH	5000.00	10	image_url	Premium luxury watch	Male	Blac

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Sort and filter on the basis of gender

QUERY: SELECT P.*

FROM Product P WHERE P.Gender = 'Unisex';

OUTPUT:

	Product_ID	Product_Name	Brand_Name	Category	Price	Stock_Quantity	Image_URL	Description	Gender	Cı
	3	Fastrack Sporty Watch	Fastrack	WATCH	4299.00	60	https://example.com/fastrack_sporty.jpg	Trendy digital watch for active lifestyle.	Unisex	Blu
1	7	Timex Expedition	Timex India	WATCH	4999.00	35	https://example.com/timex_expedition.jpg	Adventure-ready watch with water resistance.	Unisex	Gri
	10	Ray-Ban Aviator	Ray-Ban India	SUNGLASS	8799.00	70	https://example.com/rayban_aviator.jpg	Classic aviator sunglasses with UV protection.	Unisex	Go
	11	Ray-Ban Wayfarer	Ray-Ban India	SUNGLASS	7299.00	65	https://example.com/rayban_wayfarer.jpg	Trendy wayfarer sunglasses for casual wear.	Unisex	Bla
	12	Vincent Chase Polarized Sunglasses	Vincent Chase	SUNGLASS	3499.00	50	https://example.com/vc_polarized.jpg	Stylish sunglasses with polarized lenses.	Unisex	Bro
	13	Oakley Sports Sunglasses	Oakley India	SUNGLASS	10299.00	40	https://example.com/oakley_sports.jpg	High-performance sunglasses for outdoor sports.	Unisex	Gri
	14	Maui Jim Classic Sunglasses	Maui Jim	SUNGLASS	12499.00	30	https://example.com/maui_classic.jpg	Premium polarized sunglasses for ultimate clarity.	Unisex	Blu
	15	Persol Retro Sunglasses	Persol	SUNGLASS	9999.00	25	https://example.com/persol_retro.jpg	Vintage-inspired sunglasses with premium finish.	Unisex	To
	16	Carrera Oversized Sunglasses	Carrera	SUNGLASS	7799.00	35	https://example.com/carrera_oversized.jpg	Bold oversized sunglasses with unique frame.	Unisex	Bla
:	20	Skybags Backpack	Skybags	BAG	2999.00	70	https://example.com/skybags_backpack.jpg	Durable backpack with multiple compartments.	Unisex	Bla
1	21	American Tourister Trolley Bag	American Tou	BAG	6799.00	40	https://example.com/at_trolley.jpg	Spacious trolley bag with 360-degree wheels.	Unisex	Gri
:	23	Wildcraft Hiking Backpack	Wildcraft	BAG	5499.00	35	https://example.com/wildcraft_hiking.jpg	Heavy-duty backpack for trekking & hiking.	Unisex	Gri
1	24	Allen Solly Laptop Bag	Allen Solly	BAG	4999.00	30	https://example.com/allensolly_laptop.jpg	Stylish laptop bag with padded compartments.	Unisex	Bro
2	25	Titan Edge Ceramic	Titan	WATCH	17999.00	20	https://staticimg.titan.co.in/Titan/Catalog/	Ultra-thin ceramic watch with sapphire crystal.	Unisex	Bla
1	27	Fastrack Digital Sports Watch	Fastrack	WATCH	5999.00	30	https://staticimg.titan.co.in/Fastrack/Catal	Water-resistant digital sports watch.	Unisex	Bla
1	28	Fastrack Reflex Smartwatch	Fastrack	WATCH	4299.00	40	https://staticimg.titan.co.in/Fastrack/Catal	Stylish fitness smartwatch with step tracker.	Unisex	Re
1	30	Casio Vintage Gold Digital	Casio India	WATCH	4999.00	30	https://casioindiashop.com/media/catalog/	Retro-style gold digital watch.	Unisex	Go
2	33	Ray-Ban Clubmaster	Ray-Ban India	SUNGLASS	8799.00	50	https://www.ray-ban.com/next/image?url=	Classic Clubmaster sunglasses with acetate frame.	Unisex	Bla
	34	Maui Jim Polarized Aviator	Maui Jim	SUNGLASS	13999.00	25	https://cdn11.bigcommerce.com/s-0kvv9/i	Premium aviator with polarized lenses.	Unisex	Gu
3	36	Oakley Prizm Sports Shades	Oakley India	SUNGLASS	11599.00	30	https://www.oakley.com/dw/image/v2/BJC	High-contrast Prizm lenses for enhanced vision.	Unisex	Wł
1	37	Persol Folding Sunglasses	Persol	SUNGLASS	10999.00	20	https://www.persol.com/dw/image/v2/AAV	Iconic foldable sunglasses with vintage appeal.	Unisex	To
4	41	Skybags Laptop Backpack	Skybags	BAG	3599.00	60	https://www.skybags.co.in/cdn/shop/prod	Ergonomic backpack with laptop compartment.	Unisex	Na
4	43	Wildcraft Duffle Bag	Wildcraft	BAG	3999.00	35	https://www.wildcraft.com/media/catalog/	Spacious duffle bag for travel and gym.	Unisex	Bla

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Sort and filter on the basis of category

QUERY:

SELECT P.*

FROM Product P

WHERE P.Category = 'WATCH';

OUTPUT:

	Product_ID	Product_Name	Brand_Name	Category	Price	Stock_Quantity	Image_URL	Description	Gender	Colo
	1	Titan Analog Watch	Titan	WATCH	5999.00	50	https://example.com/titan_analog.jpg	Elegant analog watch with leather strap.	Male	Black
:	2	Titan Raga Women's Watch	Titan	WATCH	7499.00	40	https://example.com/titan_raga.jpg	Stylish watch with rose gold finish.	Female	Rose
	3	Fastrack Sporty Watch	Fastrack	WATCH	4299.00	60	https://example.com/fastrack_sporty.jpg	Trendy digital watch for active lifestyle.	Unisex	Blue
4	4	Fastrack Leather Strap Watch	Fastrack	WATCH	3899.00	30	https://example.com/fastrack_leather.jpg	Classic watch with premium leather strap.	Male	Brow
	5	Casio G-Shock	Casio India	WATCH	10999.00	25	https://example.com/casio_gshock.jpg	Rugged and durable watch with shock resistance.	Male	Red
(6	Casio Sheen Women's Watch	Casio India	WATCH	8499.00	20	https://example.com/casio_sheen.jpg	Elegant Sheen series watch for women.	Female	Silver
	7	Timex Expedition	Timex India	WATCH	4999.00	35	https://example.com/timex_expedition.jpg	Adventure-ready watch with water resistance.	Unisex	Gree
8	8	Seiko Premier Automatic	Seiko India	WATCH	19999.00	15	https://example.com/seiko_premier.jpg	Premium automatic watch with sapphire glass.	Male	Black
9	9	Michael Kors Rose Gold Watch	Michael Kors	WATCH	15499.00	25	https://example.com/mk_rose_gold.jpg	Luxury rose gold watch with a crystal dial.	Female	Rose
:	25	Titan Edge Ceramic	Titan	WATCH	17999.00	20	https://staticimg.titan.co.in/Titan/Catalog/1696	Ultra-thin ceramic watch with sapphire crystal.	Unisex	Black
:	26	Titan Octane Chronograph	Titan	WATCH	9499.00	25	https://staticimg.titan.co.in/Titan/Catalog/9010	Sporty chronograph with leather strap.	Male	Blue
:	27	Fastrack Digital Sports Watch	Fastrack	WATCH	5999.00	30	https://staticimg.titan.co.in/Fastrack/Catalog/3	Water-resistant digital sports watch.	Unisex	Black
:	28	Fastrack Reflex Smartwatch	Fastrack	WATCH	4299.00	40	https://staticimg.titan.co.in/Fastrack/Catalog/3	Stylish fitness smartwatch with step tracker.	Unisex	Red
:	29	Casio Edifice Chronograph	Casio India	WATCH	13999.00	15	https://casioindiashop.com/media/catalog/prod	Premium chronograph watch with solar charging.	Male	Silve
	30	Casio Vintage Gold Digital	Casio India	WATCH	4999.00	30	https://casioindiashop.com/media/catalog/prod	Retro-style gold digital watch.	Unisex	Gold
	31	Police Men's Chronograph	Police Lifestyle	WATCH	10599.00	18	https://staticimg.titan.co.in/Police/Catalog/P15	Bold chronograph with metal case.	Male	Black
	32	Timex Expedition Analog-Digital	Timex India	WATCH	6999.00	22	https://cdn.timexindia.com/media/catalog/prod	Durable adventure watch with dual display.	Male	Brow
4	46	Titan Workwear Analog Watch	Titan	WATCH	7599.00	20	https://staticimg.titan.co.in/Titan/Catalog/1805	Sophisticated workwear watch with metal strap.	Male	Black
	47	Titan Raga Viva Women's Wa	Titan	WATCH	8199.00	18	https://staticimg.titan.co.in/Titan/Catalog/2579	Elegant rose gold watch for women.	Female	Rose
-	48	Fastrack Tees Analog Watch	Fastrack	WATCH	2599.00	40	https://staticimg.titan.co.in/Fastrack/Catalog/3	Trendy casual watch for everyday wear.	Unisex	Blue
	49	Casio G-Shock Sports Watch	Casio India	WATCH	11499.00	15	https://casioindiashop.com/media/catalog/prod	Rugged G-Shock watch with shock resistance.	Male	Black
	50	Michael Kors Silver Dial Watch	Michael Kors	WATCH	13299.00	10	https://www.michaelkors.global/dw/image/v2/B	Luxurious silver dial watch with link bracelet.	Female	Silve
	63	Seiko 5 Automatic Watch	Seiko India	WATCH	23999.00	12	https://seikowatches.com/img/seiko-5-automati	Classic automatic watch with day-date display.	Male	Silve

Sort and filter on the basis of promotion applied

QUERY:

SELECT P.*

FROM Product P

LEFT JOIN Promotion PR ON P.Product_ID = PR.Product_ID

WHERE PR.Promotion_ID IS NOT NULL AND CURDATE() BETWEEN PR.Start_Date AND PR.End_Date;

OUTPUT:

	Product_ID	Product_Name	Brand_Name	Category	Price	Stock_Quantity	Image_URL	Description	Gender	Colour	Size
١	6	Casio Sheen Women's Watch	Casio India	WATCH	8499.00	20	https://example.com/casio_sheen.jpg	Elegant Sheen series watch for women.	Female	Silver	Standard

15. Add a product to the cart

QUERY:

INSERT INTO Cart (Product_ID, Customer_ID, Quantity, Price) SELECT 3, 5, 2,

P.Price * (1 - IFNULL(PR.Discount_Percentage, 0) / 100) AS Discounted_Price FROM Product P

LEFT JOIN Promotion PR ON P.Product_ID = PR.Product_ID

AND CURRENT_DATE BETWEEN PR.Start_Date AND PR.End_Date
WHERE P.Product_ID = 3;

OUTPUT:

356 22:33:06 INSERT INTO Cart (Product_ID, Customer_ID, Quantity, Price) SELECT 3, 5, 2, P.Price * (1 - IFNULL(PR.Discount_Perc... 1 row(s) affected Records: 1 Duplicates: 0 Warnings: 0

16. Update the quantity of a product in the cart

QUERY:

UPDATE Cart C

JOIN Product P ON C.Product_ID = P.Product_ID

LEFT JOIN Promotion PR ON P.Product ID = PR.Product ID

AND CURRENT_DATE BETWEEN PR.Start_Date AND PR.End_Date

SET C.Quantity = 1,

C.Price = P.Price * (1 - IFNULL(PR.Discount Percentage, 0) / 100)

WHERE C.Product ID = 3 AND C.Customer ID = 5;

OUTPUT:

351 22:32:28 UPDATE Cart C JOIN Product P ON C. Product_ID = P. Product_ID LEFT JOIN Promotion PR ON P. Product_ID = PR. P

17. Remove a product from the cart

QUERY:

DELETE FROM Cart

WHERE Product_ID=3 AND Customer_ID=5;

OUTPUT:

353 22:32:48 DELETE FROM Cart WHERE Product_ID=3 AND Customer_ID=5

1 row(s) affected

18. Calculate the total cost of the cart

QUERY:

SELECT

SUM(C.Quantity * C.Price) + IF(CU.Membership = 0, 100, 0) AS Total_Cost

FROM Cart C

JOIN Customer CU ON C.Customer_ID = CU.Customer_ID

WHERE C.Customer ID=5;

OUTPUT:



19. Add a review only if the customer has ordered the product

QUERY:

INSERT INTO Review (Product_ID, Customer_ID, Rating, Comment)

SELECT 1, 12, 4, 'very good product'

WHERE EXISTS (

SELECT 1

FROM All Orders AO

JOIN Order History OH ON AO. Order ID = OH. Order ID

WHERE OH.Customer_ID = 12 AND AO.Product_ID = 1);

OUTPUT:

339 22:22:18 INSERT INTO Review (Product_ID, Customer_ID, Rating, Comment) SELECT 1, 12, 4, very good product WHERE EXI... 1 row(s) affected Records: 1 Duplicates: 0 Warnings: 0

20. Order history: Retrieve all orders by a customer, sorted by date of ordering

QUERY:

SELECT

OH.Order ID,

OH.Grand_Total,

OH.Order_Status,

OH.Date_of_Ordering

FROM Order_History OH

WHERE OH. Customer ID = 5

ORDER BY OH.Date_of_Ordering DESC;

OUTPUT:

	Order_ID	Grand_Total	Order_Status	Date_of_Ordering
	13	14280.25	Shipped	2024-12-24 20:50:00
_	NULL	NULL	NULL	NULL