

```
63 -- A. WHERE vs HAVING
64 -- WHERE filters rows before aggregation (orders in 2025)
65 • SELECT * FROM orders
66 WHERE order_date BETWEEN '2025-01-01' AND '2025-12-31'
67 ORDER BY order_date DESC LIMIT 20;
```

Result Grid |   Filter Rows:  | Edit:    | Export/Import:   | Wrap Cell Content:  | Fetch rows: 

	order_id	user_id	order_date	status	payment_method
▶	107	113	2025-11-16	delivered	debit_card
	392	63	2025-11-04	delivered	net_banking
	487	58	2025-10-28	shipped	credit_card
	236	122	2025-10-28	delivered	upi
	166	95	2025-10-27	delivered	credit_card
	201	89	2025-10-26	processing	credit_card
	199	32	2025-10-23	delivered	debit_card
	181	128	2025-10-21	delivered	upi
	521	134	2025-10-19	shipped	paypal
	131	27	2025-10-14	processing	paypal

orders 12 ×

```

68  -- HAVING filters groups after aggregation (products with revenue > 2000)
69  • SELECT p.product_id, p.product_name, p.category, SUM(oi.total_price) AS revenue
70  FROM products p
71  JOIN order_items oi ON p.product_id = oi.product_id
72  GROUP BY p.product_id, p.product_name, p.category
73  HAVING SUM(oi.total_price) > 2000
74  ORDER BY revenue DESC;

```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



	product_id	product_name	category	revenue
▶	74	Clothing Item 74	Clothing	45971.48
	20	Computers Item 20	Computers	34805.62
	48	Toys Item 48	Toys	32933.70
	10	Computers Item 10	Computers	31312.42
	67	Electronics Item 67	Electronics	30147.32
	72	Toys Item 72	Toys	29470.35
	24	Beauty Item 24	Beauty	29060.25
	73	Computers Item 73	Computers	28369.81
	77	Beauty Item 77	Beauty	28293.66
	70	Sports Item 70	Sports	28151.73

```

76  -- B. JOINS examples
77  -- INNER JOIN: users who placed orders and their order totals
78  • SELECT u.user_id, u.name, o.order_id, ot.order_total
79  FROM users u
80  JOIN orders o ON u.user_id = o.user_id
81  JOIN order_totals_view ot ON o.order_id = ot.order_id
82  ORDER BY ot.order_total DESC LIMIT 20;

```

Result Grid 
 




 Filter Rows: 
 Export: 
 Wrap Cell Content: 
 Fetch rows:

	user_id	name	order_id	order_total
▶	9	Arjun Brown	306	6472.95
	84	Maya Mehra	220	6408.26
	85	Maya Jones	33	6347.94
	143	Rohit Kumar	324	5900.00
	6	Priya Davis	30	5735.77
	143	Rohit Kumar	330	5701.79
	72	Rohit Gupta	231	5582.70
	85	Maya Jones	346	5559.63
	66	Sophia Smith	141	5555.12
	82	Maya Singh	238	5364.76

```

84 • SELECT u.user_id, u.name, ot.order_total, ot.order_date
85 FROM users u
86 LEFT JOIN (
87     SELECT o.user_id, o.order_id, o.order_date, SUM(oi.total_price) AS order_total
88     FROM orders o JOIN order_items oi ON o.order_id = oi.order_id
89     GROUP BY o.order_id, o.user_id, o.order_date
90 ) ot ON u.user_id = ot.user_id
91 GROUP BY u.user_id, ot.order_date, ot.order_total
92 ORDER BY u.user_id LIMIT 50;

```

<div> <div>Result Grid</div> <div> <div></div> <div></div> </div> <div>Filter Rows: <input type="text"/></div> <div> <div>Export: </div> <div>Wrap Cell Content: </div> <div>Fetch rows: </div> </div> </div>				
	user_id	name	order_total	order_date
▶	1	Aditya Sharma	2822.42	2020-04-03
	1	Aditya Sharma	882.04	2020-06-29
	1	Aditya Sharma	952.26	2023-02-09
	2	Priya Singh	1032.36	2021-10-08
	2	Priya Singh	3782.87	2022-05-29
	2	Priya Singh	686.37	2024-08-11
	3	Sophia Jones	4105.62	2021-11-03
	3	Sophia Jones	2155.45	2022-06-14
	3	Sophia Jones	1667.28	2022-12-07
	3	Sophia Jones	1258.64	2023-11-08

```
94      -- C. Average revenue per user (ARPU)
95      -- total revenue / count(distinct active users)
96 •    SELECT ROUND(SUM(oi.total_price) / NULLIF(COUNT(DISTINCT o.user_id),0),2) AS arpu_estimate
97      FROM orders o JOIN order_items oi ON o.order_id = oi.order_id;
98
```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



	arpu_estimate
--	---------------

▶	6858.92
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```

99      -- D. Subqueries examples
100     -- Users who spent more than average user
101  •  SELECT user_id, name, user_total FROM (
102         SELECT u.user_id, u.name, COALESCE(SUM(oi.total_price),0) AS user_total
103         FROM users u
104         LEFT JOIN orders o ON u.user_id = o.user_id
105         LEFT JOIN order_items oi ON o.order_id = oi.order_id
106         GROUP BY u.user_id, u.name
107     ) t
108  WHERE user_total > (
109     SELECT AVG(user_total) FROM (
110         SELECT COALESCE(SUM(oi.total_price),0) AS user_total
111         FROM users u

```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:








	user_id	name	user_total
▶	3	Sophia Jones	9186.99
	5	Isabella Sharma	7381.62
	6	Priya Davis	6460.09
	9	Arjun Brown	13434.46
	12	Ava Nair	11115.73



```

118 -- E. Aggregations & business queries
119 -- Top 10 products by revenue
120 • SELECT p.product_id, p.product_name, p.category, SUM(oi.total_price) AS revenue, SUM(oi.quantity) AS units_sold
121 FROM products p
122 JOIN order_items oi ON p.product_id = oi.product_id
123 GROUP BY p.product_id, p.product_name, p.category
124 ORDER BY revenue DESC LIMIT 10;

```

Result Grid   Filter Rows:  Export:  Wrap Cell Content:  Fetch rows: 

	product_id	product_name	category	revenue	units_sold
▶	74	Clothing Item 74	Clothing	45971.48	92
	20	Computers Item 20	Computers	34805.62	71
	48	Toys Item 48	Toys	32933.70	69
	10	Computers Item 10	Computers	31312.42	71
	67	Electronics Item 67	Electronics	30147.32	67
	72	Toys Item 72	Toys	29470.35	85
	24	Beauty Item 24	Beauty	29060.25	75
	73	Computers Item 73	Computers	28369.81	67
	77	Beauty Item 77	Beauty	28293.66	57
	70	Sports Item 70	Sports	28151.73	57

```

125      -- Top 10 users by lifetime spend (from view)
126  •    SELECT user_id, name, lifetime_spend, orders_count
127      FROM customer_ltv_view
128      ORDER BY lifetime_spend DESC LIMIT 10;
129

```

Result Grid				
Filter Rows: <input type="text"/>				
Export: <input type="text"/>				
Wrap Cell Content: <input type="text"/>				
Fetch rows: <input type="text"/>				
	user_id	name	lifetime_spend	orders_count
▶	24	Sophia Brown	29805.87	9
	85	Maya Jones	22390.09	7
	130	Liam Smith	21992.61	8
	143	Rohit Kumar	18899.56	6
	93	Maya Brown	17955.13	6
	158	Ananya Reddy	16512.47	8
	35	Rohit Iyer	16460.54	6
	184	Vihaan Iyer	15632.74	5
	20	Sara Brown	15524.45	6
	48	Aditya Jones	15371.82	7



```

142  -- G. Segmentation using CASE
143  •  SELECT user_id, name, lifetime_spend,
144     CASE
145         WHEN lifetime_spend >= 2000 THEN 'Platinum'
146         WHEN lifetime_spend >= 1000 THEN 'Gold'
147         WHEN lifetime_spend >= 500 THEN 'Silver'
148         ELSE 'Bronze'
149     END AS tier

```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



Fetch rows:



	user_id	name	lifetime_spend	tier
▶	24	Sophia Brown	29805.87	Platinum
	85	Maya Jones	22390.09	Platinum
	130	Liam Smith	21992.61	Platinum
	143	Rohit Kumar	18899.56	Platinum
	93	Maya Brown	17955.13	Platinum
	158	Ananya Reddy	16512.47	Platinum
	35	Rohit Iyer	16460.54	Platinum
	184	Vihaan Iyer	15632.74	Platinum
	20	Sara Brown	15524.45	Platinum
	48	Aditya Jones	15371.82	Platinum
	82	Maya Singh	14889.08	Platinum