

```
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;
```

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

	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

```

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					
	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				
	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