

BEFORE:

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'e-commerce_backup' database schema with tables like customer_dimension, date_dimension, order_details, orders, payments, product_dimension, products, time_dimension, and users. The main window shows a SQL query in the 'SQL File 62' editor:

```
1 SELECT
2   orders.order_id,
3   orders.created_at AS order_date,
4   SUM(order_details.price * order_details.quantity) AS total_order_value
5 FROM
6   orders
7 JOIN
8   order_details ON orders.order_id = order_details.order_id
9 GROUP BY
10  orders.order_id, orders.created_at
```

The 'Result Grid' shows the first few rows of the query results:

order_id	order_date	total_order_value
76236	2025-04-21 13:03:23	3360.20
75981	2025-04-21 13:03:23	19222.61
75868	2025-04-21 13:03:23	928.22
75689	2025-04-21 13:03:23	9484.52
76131	2025-04-21 13:03:23	1366.99
75726	2025-04-21 13:03:23	18888.48
75802	2025-04-21 13:03:23	11509.83
75374	2025-04-21 13:03:23	371.42

The 'Output' tab at the bottom shows the execution plan and results:

#	Time	Action	Message	Duration / Fetch
1	11:22:48	SELECT * FROM 'e-commerce_backup'.customer_dimension LIMIT 0, 50000	0 row(s) returned	0.000 sec / 0.000 sec
2	11:22:50	SELECT * FROM 'e-commerce_backup'.date_dimension LIMIT 0, 50000	345 row(s) returned	0.031 sec / 0.000 sec
3	11:23:38	SELECT orders.order_id, orders.created_at AS order_date, SUM(order_details.price * order_details.qua...	Error Code: 1109. Unknown table 'orders' in field list	0.000 sec
4	11:24:06	SELECT orders.order_id, orders.created_at AS order_date, SUM(order_details.price * order_details qua...	50000 row(s) returned	0.578 sec / 0.015 sec

- Duration/Fetch:
 - 0.578 sec (Duration)
 - 0.015 sec (Fetch)

AFTER;

MySQL Workbench interface showing a query execution result. The query is a SELECT statement with a JOIN between 'orders' and 'order_details' tables. The result grid shows 50,000 rows. The output pane shows the execution plan and duration/fetch times.

Table: orders

Columns:

- order_id: int AI PK
- user_id: int
- total_price: decimal(10,2)
- order_status: enum('pending', 'completed')
- created_at: timestamp
- completed_at: datetime

Result Grid:

order_id	order_date	total_order_value
2	2025-04-11 14:04:06	5214.90
1	2025-04-11 14:04:06	2358.90
17	2025-04-21 12:59:49	492.28
310	2025-04-21 12:59:49	2263.13
95	2025-04-21 12:59:49	9802.79
311	2025-04-21 12:59:49	3415.40
389	2025-04-21 12:59:49	561.77

Output:

#	Time	Action	Message	Duration / Fetch
2	11:22:50	SELECT * FROM 'e-commerce_backup'.date_dimension LIMIT 0, 50000	345 row(s) returned	0.031 sec / 0.000 sec
3	11:23:38	SELECT orders.order_id, orders.created_at AS order_date, SUM(order_details.price * order_details.qu...	Error Code: 1109. Unknown table 'orders' in field list	0.000 sec
4	11:24:06	SELECT orders.order_id, orders.created_at AS order_date, SUM(order_details.price * order_details.qu...	50000 row(s) returned	0.578 sec / 0.015 sec
5	11:34:51	EXPLAIN SELECT orders.order_id, orders.created_at AS order_date, SUM(order_details.price * order...	2 row(s) returned	0.000 sec / 0.000 sec
6	11:41:09	CREATE INDEX idx_orders_order_id ON orders(order_id)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.172 sec
7	11:41:10	CREATE INDEX idx_orders_created_at ON orders(created_at)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.203 sec
8	11:41:45	CREATE INDEX idx_order_details_order_id ON order_details(order_id)	0 row(s) affected, 1 warning(s): 1831 Duplicate index 'idx_order_details_order_id' defined on the table 'e-comm...	0.188 sec
9	11:42:46	SHOW INDEXES FROM order_details	4 row(s) returned	0.016 sec / 0.000 sec
10	11:45:08	SELECT orders.order_id, orders.created_at AS order_date, SUM(order_details.price * order_details.qu...	50000 row(s) returned	0.406 sec / 0.016 sec

Duration/Fetch:

- 0.406 sec (Duration)
- 0.016 sec (Fetch)