

root x

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 x Limit to 1000 rows

MANAGEMENT

- Server Status
- Client Connections
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- Status and Settings
- Data Export
- Data Import

INSTANCE

- Startup / Shutdown
- Administration
- Information

No object selected

```
1 • create database e_commerce;
2 • use e_commerce;
3 • create table customers(customer_id int auto_increment primary key, name varchar(50), email varchar(50), mobile varchar(15));
4 • create table products(id int, name varchar(50) not null, description varchar(200), price decimal(10,2) not null, category varchar(50));
5 • alter table customers modify name varchar(50) NOT NULL;
6 • alter table customers modify email varchar(50) NOT NULL;
7 • alter table customers add column age int;
8 • alter table products rename column id to product_id;
9 • select * from products;
10 • desc products;
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
5	09:28:37	alter table customers alter column name set NOT NULL	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to...	0.063 sec
6	09:30:29	alter table customers modify name varchar(50) NOT NULL	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.094 sec
7	09:31:07	alter table customer modify email varchar(50) NOT NULL	Error Code: 1146. Table 'e_commerce.customer' doesn't exist	0.031 sec
8	09:31:20	alter table customers modify email varchar(50) NOT NULL	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.110 sec
9	09:35:05	alter table customers add column age int	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.094 sec
10	09:35:50	alter table products rename column id to product_id	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.094 sec
11	09:36:05	select * from products LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
12	09:36:31	desc products	5 row(s) returned	0.015 sec / 0.000 sec

Object Info

65°F Partly sunny

Search

ENG IN 09:37 18-02-2025

MySQL Workbench

root x

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Navigator Query 1 x

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No object selected

```
17
18 create table orders(order_id int auto_increment primary key,
19 customer_id int,
20 product_id int,
21 quantity int not null,
22 order_date date not null,
23 status enum('Pending','Success','Cancel'),
24 payment_method enum('Credit','Debit','UPI'),
25 total_amount decimal(10,2) not null,
26 foreign key (customer_id) references customers(customer_id),
27 foreign key (product_id) references products(product_id));
28
29 alter table orders
30 modify status enum('Pending','Success','Cancel') default 'Pending';
31
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 17	09:41:50	select * from products LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
✓ 18	09:42:07	desc products	5 row(s) returned	0.000 sec / 0.000 sec
✓ 19	09:49:25	create table orders(order_id int auto_increment primary key, customer_id int, product_id int, q...	0 row(s) affected	0.094 sec
✓ 20	09:51:43	alter table orders modify status enum('Pending','Success','Cancel') default 'Pending'	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.078 sec
✓ 21	09:51:53	desc orders	8 row(s) returned	0.000 sec / 0.000 sec
✓ 22	09:52:58	alter table orders add foreign key (customer_id) references customers(customer_id), add foreign key (product_id) references products(product_id);	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.000 sec

Object Info

Windows taskbar: Search, ENG IN, 09:59 18-02-2025

MySQL Workbench

root x

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Navigator Query 1 x

MANAGEMENT

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INSTANCE

- Startup / Shutdown
- Administration
- Information

No object selected

```
28
29 • alter table orders
30   modify status enum('Pending','Success','Cancel') default 'Pending';
31
32 • desc orders;
33
34 • alter table orders
35   modify payment_method enum('Credit','Debit','UPI','COD');
36
37 • alter table orders
38   add constraint
39   foreign key (product_id) references products(product_id);
40
41
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 17	09:41:50	select * from products LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
✓ 18	09:42:07	desc products	5 row(s) returned	0.000 sec / 0.000 sec
✓ 19	09:49:25	create table orders(order_id int auto_increment primary key, customer_id int, product_id int, q...	0 row(s) affected	0.094 sec
✓ 20	09:51:43	alter table orders modify status enum('Pending','Success','Cancel') default 'Pending'	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.078 sec
✓ 21	09:51:53	desc orders	8 row(s) returned	0.000 sec / 0.000 sec
✓ 22	09:52:58	alter table orders modify payment_method enum('Credit','Debit','UPI','COD')	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.000 sec

Object Info

Windows taskbar: Search, ENG IN, 09:59 18-02-2025

MySQL Workbench

root x

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Navigator Query 1 x

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No object selected

```
41 -- Question 6-----
42 INSERT INTO Customers (name, email, mobile, age) VALUES
43 ('Aarav Mehta', 'aarav.mehta@email.com', '9876543210', 30),
44 ('Priya Sharma', 'priya.sharma@email.com', '9876543211', 25),
45 ('Rahul Verma', 'rahul.verma@email.com', '9876543212', 28),
46 ('Neha Kapoor', 'neha.kapoor@email.com', '9876543213', 26),
47 ('Amit Joshi', 'amit.joshi@email.com', '9876543214', 32),
48 ('Simran Kaur', 'simran.kaur@email.com', '9876543215', 29),
49 ('Rohit Singh', 'rohit.singh@email.com', '9876543216', 31),
50 ('Meera Nair', 'meera.nair@email.com', '9876543217', 27),
51 ('Vikas Patel', 'vikas.patel@email.com', '9876543218', 34),
52 ('Ananya Rao', 'ananya.rao@email.com', '9876543219', 23),
53 ('Saurabh Malhotra', 'saurabh.malhotra@email.com', '9876543220', 29),
54 ('Deepak Yadav', 'deepak.yadav@email.com', '9876543221', 33),
55 ('Kiran Shah', 'kiran.shah@email.com', '9876543222', 26),
56 ('Sanya Gupta', 'sanya.gupta@email.com', '9876543223', 28),
57 ('Harsh Jain', 'harsh.jain@email.com', '9876543224', 30),
58 ('Tanisha Bansal', 'tanisha.bansal@email.com', '9876543225', 25),
59 ('Arjun Desai', 'arjun.desai@email.com', '9876543226', 31),
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
28	10:11:15	select * from products LIMIT 0.1000	20 row(s) returned	0.000 sec / 0.000 sec

Object Info

10:36 18-02-2025

MySQL Workbench

root x

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Navigator Query 1 x

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INSTANCE

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- Administration
- Information

No object selected

Query 1 x

Limit to 1000 rows

```
62 ('Swati Agarwal', 'swati.agarwal@email.com', '9876543229', 24);
63
64 select * from customers;
65
66 -- inserting data into product table
67 INSERT INTO Products (product_id, name, description, price, category) VALUES
68 (1, 'Smartphone', 'Latest model smartphone', 299.99, 'Electronics'),
69 (2, 'Laptop', 'High-performance laptop', 799.99, 'Electronics'),
70 (3, 'Headphones', 'Noise-cancelling headphones', 149.99, 'Electronics'),
71 (4, 'Smartwatch', 'Fitness tracking smartwatch', 199.99, 'Electronics').
```

Result Grid

customer_id	name	email	mobile	age
1	Aarav Mehta	aarav.mehta@email.com	9876543210	30
2	Priya Sharma	priya.sharma@email.com	9876543211	25
3	Rahul Verma	rahul.verma@email.com	9876543212	28
4	Neha Kapoor	neha.kapoor@email.com	9876543213	26
5	Amit Joshi	amit.joshi@email.com	9876543214	32
6	Simran Kaur	simran.kaur@email.com	9876543215	29
7	Rohit Singh	rohit.singh@email.com	9876543216	31
8	Meera Nair	meera.nair@email.com	9876543217	27

customers 11 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
32	10:36:11	select category, count(product_id) as product_count from products group by category LIMIT ...	3 row(s) returned	0.016 sec / 0.000 sec

Object Info

ENG IN 10:37 18-02-2025

MySQL Workbench

root x

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Navigator Query 1 x

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INSTANCE

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- Information

No object selected

```
66 -- inserting data into product table
67 INSERT INTO Products (product_id, name, description, price, category) VALUES
68 (1, 'Smartphone', 'Latest model smartphone', 299.99, 'Electronics'),
69 (2, 'Laptop', 'High-performance laptop', 799.99, 'Electronics'),
70 (3, 'Headphones', 'Noise-cancelling headphones', 149.99, 'Electronics'),
71 (4, 'Smartwatch', 'Fitness tracking smartwatch', 199.99, 'Electronics'),
72 (5, 'Bluetooth Speaker', 'Portable speaker', 99.99, 'Electronics'),
73 (6, 'Tablet', '10-inch display tablet', 399.99, 'Electronics'),
74 (7, 'Gaming Console', 'Latest generation gaming console', 499.99, 'Electronics'),
75 (8, 'DSLR Camera', 'Professional photography camera', 999.99, 'Electronics'),
76 (9, 'External Hard Drive', '1TB external storage', 89.99, 'Electronics'),
77 (10, 'Wireless Mouse', 'Ergonomic wireless mouse', 29.99, 'Electronics'),
78 (11, 'Office Chair', 'Ergonomic office chair', 199.99, 'Furniture'),
79 (12, 'Sofa Set', 'Luxury 3-piece sofa set', 999.99, 'Furniture'),
80 (13, 'Dining Table', 'Wooden dining table', 599.99, 'Furniture'),
81 (14, 'Bookshelf', 'Spacious wooden bookshelf', 249.99, 'Furniture'),
82 (15, 'Ceiling Fan', 'Remote-controlled ceiling fan', 149.99, 'Home Appliances'),
83 (16, 'Air Conditioner', '1.5-ton inverter AC', 899.99, 'Home Appliances'),
84 (17, 'Microwave Oven', 'Convection microwave oven', 349.99, 'Home Appliances'),
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
32	10:36:11	select category, count(product_id) as product_count from products group by category LIMIT ...	3 row(s) returned	0.016 sec / 0.000 sec

Object Info

Windows taskbar: Search, ENG IN, 10:37, 18-02-2025

MySQL Workbench

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Navigator Query 1 x

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Information

Limit to 1000 rows

```
81 (14, 'Bookshelf', 'Spacious wooden bookshelf', 249.99, 'Furniture'),
82 (15, 'Ceiling Fan', 'Remote-controlled ceiling fan', 149.99, 'Home Appliances'),
83 (16, 'Air Conditioner', '1.5-ton inverter AC', 899.99, 'Home Appliances'),
84 (17, 'Microwave Oven', 'Convection microwave oven', 349.99, 'Home Appliances'),
85 (18, 'Washing Machine', 'Top-load washing machine', 699.99, 'Home Appliances'),
86 (19, 'Refrigerator', 'Double-door refrigerator', 1199.99, 'Home Appliances'),
87 (20, 'Vacuum Cleaner', 'Powerful vacuum cleaner', 299.99, 'Home Appliances');
88
89 • select * from products;
```

Result Grid

product_id	name	description	price	category
1	Smartphone	Latest model smartphone	299.99	Electronics
2	Laptop	High-performance laptop	799.99	Electronics
3	Headphones	Noise-cancelling headphones	149.99	Electronics
4	Smartwatch	Fitness tracking smartwatch	199.99	Electronics
5	Bluetooth Speaker	Portable speaker	99.99	Electronics
6	Tablet	10-inch display tablet	399.99	Electronics
7	Gaming Console	Latest generation gaming console	499.99	Electronics
8	DSLR Camera	Professional photography camera	999.99	Electronics
9	External Hard Drive	1TB external storage	89.99	Electronics

products 12 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
33	10:37:00	select * from customers LIMIT 0, 1000	20 row(s) returned	0.000 sec / 0.000 sec

Object Info

ENG IN 10:37 18-02-2025

MySQL Workbench

root x

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Navigator Query 1 x

MANAGEMENT

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INSTANCE

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No object selected

Limit to 1000 rows

```
91 -- inserting data into orders table
92 INSERT INTO Orders (customer_id, product_id, quantity, order_date, status, payment_method, total_amount) VALUES
93 (1, 2, 1, '2024-02-10', 'Success', 'Credit', 799.99),
94 (2, 4, 2, '2024-02-12', 'Pending', 'Debit', 399.98),
95 (3, 1, 1, '2024-02-14', 'Success', 'UPI', 299.99),
96 (4, 3, 3, '2024-02-15', 'Cancel', 'Credit', 449.97),
97 (5, 6, 1, '2024-02-17', 'Success', 'UPI', 399.99),
98 (6, 5, 2, '2024-02-18', 'Pending', 'Debit', 199.98),
99 (7, 8, 1, '2024-02-20', 'Success', 'Credit', 999.99),
100 (8, 10, 5, '2024-02-21', 'Pending', 'UPI', 149.95),
101 (9, 7, 1, '2024-02-23', 'Success', 'Debit', 499.99),
102 (10, 9, 2, '2024-02-24', 'Cancel', 'Credit', 179.98),
103 (11, 11, 1, '2024-02-25', 'Success', 'UPI', 199.99),
104 (12, 13, 1, '2024-02-26', 'Pending', 'Debit', 599.99),
105 (13, 15, 2, '2024-02-27', 'Success', 'Credit', 299.98),
106 (14, 17, 1, '2024-02-28', 'Pending', 'UPI', 349.99),
107 (15, 19, 1, '2024-02-29', 'Success', 'Debit', 1199.99),
108 (16, 12, 1, '2024-03-01', 'Cancel', 'Credit', 999.99),
109 (17, 14, 2, '2024-03-02', 'Success', 'UPI', 499.98),
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
33	10:37:00	select * from customers LIMIT 0, 1000	20 row(s) returned	0.000 sec / 0.000 sec

Object Info

Windows taskbar: Search, ENG IN, 10:37 18-02-2025

MySQL Workbench

root x

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Navigator Query 1 x

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Information

Limit to 1000 rows

107 (15, 19, 1, '2024-02-29', 'Success', 'Debit', 1199.99),
108 (16, 12, 1, '2024-03-01', 'Cancel', 'Credit', 999.99),
109 (17, 14, 2, '2024-03-02', 'Success', 'UPI', 499.98),
110 (18, 16, 1, '2024-03-03', 'Pending', 'Debit', 899.99),
111 (19, 18, 1, '2024-03-04', 'Success', 'Credit', 699.99),
112 (20, 20, 1, '2024-03-05', 'Pending', 'UPI', 299.99);
113
114 • select * from orders;
115

Result Grid

order_id	customer_id	product_id	quantity	order_date	status	payment_method	total_amount
1	1	2	1	2024-02-10	Success	Credit	799.99
2	2	4	2	2024-02-12	Pending	Debit	399.98
3	3	1	1	2024-02-14	Success	UPI	299.99
4	4	3	3	2024-02-15	Cancel	Credit	449.97
5	5	6	1	2024-02-17	Success	UPI	399.99
6	6	5	2	2024-02-18	Pending	Debit	199.98
7	7	8	1	2024-02-20	Success	Credit	999.99
8	8	10	5	2024-02-21	Pending	UPI	149.95
9	9	7	1	2024-02-23	Success	Debit	499.99

orders 13 x

Apply Revert

Output

Action Output

#	Time	Action	Message	Duration / Fetch
34	10:37:20	select * from products LIMIT 0, 1000	20 row(s) returned	0.000 sec / 0.000 sec

Object Info

ENG IN 10:37 18-02-2025

MySQL Workbench

root x

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 x

MANAGEMENT

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INSTANCE

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- Administration
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No object selected

Limit to 1000 rows

```
112 (20, 20, 1, '2024-03-05', 'Pending', 'UPI', 299.99);
113
114 • select * from orders;
115
116 -- Question 7 -----
117 -- a. Count the number of products as product_count in each category
118 • select category, count(product_id) as product_count
119   from products
120  group by category;
121
122
```

Result Grid

category	product_count
Electronics	10
Furniture	4
Home Appliances	6

Result 14 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
35	10:37:48	select * from orders LIMIT 0, 1000	20 row(s) returned	0.000 sec / 0.000 sec

Object Info

ENG IN

10:38 18-02-2025

MySQL Workbench

root x

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 x

MANAGEMENT

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Information

Limit to 1000 rows

```
-- b.Retrieve all products that belong to the 'Electronics' category, have a price between $50 and $500, and whose name contains the letter 'a'.  
  
select name, category, price  
from products  
where category = 'Electronics' AND price between 50 and 500 AND name LIKE '%a%';
```

Result Grid

name	category	price
Smartphone	Electronics	299.99
Headphones	Electronics	149.99
Smartwatch	Electronics	199.99
Bluetooth Speaker	Electronics	99.99
Tablet	Electronics	399.99
Gaming Console	Electronics	499.99
External Hard Drive	Electronics	89.99

products 17 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
38	10:43:50	select name, category, price from products where name like "%a%" AND category="Electronics"	7 row(s) returned	0.016 sec / 0.000 sec

Object Info

No object selected

Result Grid Form Editor

ENG IN 10:45 18-02-2025

MySQL Workbench

root x

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 x

MANAGEMENT

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Information

Query 1

```
-- Get the top 5 most expensive products in the 'Electronics' category, skipping the first 2
select name ,price
from products
where category ='Electronics'
order by price desc
limit 5 offset 2;
```

Result Grid

	name	price
▶	Gaming Console	499.99
	Tablet	399.99
	Smartphone	299.99
	Smartwatch	199.99
	Headphones	149.99

products 19 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✖ 40	10:47:57	select name from products ,price where category ='Electronics' order by price desc limit 5	Error Code: 1146. Table 'e_commerce.price' doesn't exist	0.000 sec
✔ 41	10:48:51	select name ,price from products where category ='Electronics' order by price desc limit 5	5 row(s) returned	0.000 sec / 0.000 sec
✔ 42	10:49:48	select name ,price from products where category ='Electronics' order by price desc limit 5 offset 2	5 row(s) returned	0.000 sec / 0.000 sec

Object Info

No object selected

ENG IN 10:50 18-02-2025

MySQL Workbench

root x

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Navigator Query 1

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INSTANCE

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No object selected

Result Grid

name
Arun Yadav

Result 28 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
53	11:01:27	delete from customers where customer_id=21	1 row(s) affected	0.047 sec

Object Info

```
-- d. Retrieve customers who have not placed any orders.
140
141 • INSERT INTO customers (name, email, mobile, age)
142   VALUES ('Arun Yadav', 'yadav12@email.com', '9876543230', 28);
143
144 • delete from customers where customer_id=21;
145 • select c.name
146   from customers c
147  left join orders o on c.customer_id = o.customer_id
148   where o.customer_id is null;
```


MySQL Workbench

root x

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 x

MANAGEMENT

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No object selected

Limit to 1000 rows

```
-- e. Find the average total amount spent by each customer.

select c.name, avg(o.total_amount) as avg_amount_spent
from customers c
join orders o on c.customer_id=o.customer_id
group by c.name;
```

Result Grid

	name	avg_amount_spent
▶	Aarav Mehta	799.990000
	Priya Sharma	399.980000
	Rahul Verma	299.990000
	Neha Kapoor	449.970000
	Amit Joshi	399.990000
	Simran Kaur	199.980000
	Daksh Singh	000.000000

Result 31 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
57	11:06:43	select c.name, avg(o.total_amount) as avg_amount_spent from customers c join orders o on ...	20 row(s) returned	0.000 sec / 0.000 sec

Object Info

ENG IN

11:07 18-02-2025

MySQL Workbench

root x

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Navigator Query 1

MANAGEMENT

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No object selected

Query 1

```
-- f.Get the products that have a price less than the average price of all products.

select name ,price
from products
where price < (select avg(price) from products);
```

Result Grid

	name	price
▶	Smartphone	299.99
	Headphones	149.99
	Smartwatch	199.99
	Bluetooth Speaker	99.99
	Tablet	399.99
	External Hard Drive	89.99
...

products 32 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
58	11:07:00	select c name, avg(o total_amount) as avg_amount_spent from customers c join orders o on ...	20 row(s) returned	0.000 sec / 0.000 sec
59	11:08:09	select name ,price from product where price < (select avg(price) from products) LIMIT 0, 1000	Error Code: 1146. Table 'e_commerce.product' doesn't exist	0.000 sec
60	11:08:28	select name ,price from products where price < (select avg(price) from products) LIMIT 0, 1000	12 row(s) returned	0.000 sec / 0.000 sec

Object Info

ENG IN 11:08 18-02-2025

MySQL Workbench

root x

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Navigator Query 1 x

MANAGEMENT

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Information

No object selected

Query 1

```
-- g. Calculate the total quantity of products ordered by each customer:
select c.name,sum(o.quantity) as total_quantity
from customers c
join orders o on c.customer_id=o.customer_id
group by c.name,c.customer_id;
```

Result Grid

name	total_quantity
Harsh Jain	1
Tanisha Bansal	1
Arjun Desai	2
Ritika Khanna	1
Vivek Saxena	1
Swati Agarwal	1

Result 33 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
59	11:08:09	select name ,price from product where price < (select avg(price) from products) LIMIT 0, 1000	Error Code: 1146. Table 'e_commerce.product' doesn't exist	0.000 sec
60	11:08:28	select name ,price from products where price < (select avg(price) from products) LIMIT 0, 1000	12 row(s) returned	0.000 sec / 0.000 sec
61	11:16:04	select c.name,sum(o.quantity) as total_quantity from customers c join orders o on c.customer_...	20 row(s) returned	0.000 sec / 0.000 sec

Object Info

11:16 18-02-2025

MySQL Workbench

root x

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 x

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and Settings
- Data Export
- Data Import

INSTANCE

- Startup / Shutdown
- Administration

Information

Result Grid

name

Electric Kettle

Result 36 x

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
63	11:23:23	select p.name from products p left join orders o on p.product_id=o.product_id where o.product...	0 row(s) returned	0.000 sec / 0.000 sec
64	11:25:10	INSERT INTO Products (product_id, name, description, price, category) VALUES (21, 'Electri...	1 row(s) affected	0.063 sec
65	11:25:26	select p.name from products p left join orders o on p.product_id=o.product_id where o.product...	1 row(s) returned	0.000 sec / 0.000 sec

Object Info

Windows taskbar: Search, ENG IN, 11:25, 18-02-2025