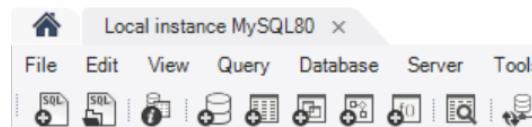


## MySQL Workbench



## Navigator

## SCHEMAS

Filter objects

- ▼ **data**
  - ▶ Tables
    - ▶ data
    - ▶ e-commerce dataset
      - ▶ Columns
      - ▶ Indexes
      - ▶ Foreign Keys
      - ▶ Triggers
    - ▶ e-commerce\_dataset
  - ▶ Views
  - ▶ Stored Procedures
  - ▶ Functions
- ▼ **salesdb**
  - ▶ Tables
  - ▶ Views

## Administration Schemas

## Information

## Table: e-commerce dataset

Columns:  
Order\_Date  
Time  
Aging  
Customer\_Id  
Gender

Object Info Session

## Query 1 e-commerce dataset

```
1 • USE data;
2
3
4
5
6
```

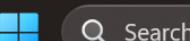
Limit to 1000 rows



## Output

## Action Output

#	Time	Action	Message	Duration / Fetch
✓ 27	16:59:22	USE data	0 row(s) affected	0.000 sec
✓ 28	16:59:23	USE data	0 row(s) affected	0.000 sec
✓ 29	16:59:24	USE data	0 row(s) affected	0.000 sec
✓ 30	16:59:24	USE data	0 row(s) affected	0.000 sec
✓ 31	16:59:25	USE data	0 row(s) affected	0.000 sec
✓ 32	16:59:26	USE data	0 row(s) affected	0.000 sec



5:00 PM  
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## MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help



Navigator

SCHEMAS

Filter objects

data

- Tables
- data
- e-commerce dataset
- Columns
- Indexes
- Foreign Keys
- Triggers
- e-commerce\_dataset

Views

Stored Procedures

Functions

- salesdb
- Tables
- Views
- Stored Procedures

Administration Schemas

Information

Table: e-commerce dataset

**Columns:**

Order_Date	te
Time	te
Aging	dc
Customer_Id	int
Gender	te

Object Info Session

Query 1 e-commerce dataset ×

```

1 • USE data;
2
3
4 • SELECT * FROM `e-commerce dataset`;
5
6

```

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

Order_Date	Time	Aging	Customer_Id	Gender	Device_Type	Customer_Login_type	Product_Category	Product	Sales	Quantity	Discount	Profit	Shipping_Cost
2018-01-02	10:56:33	8	37077	Female	Web	Member	Auto & Accessories	Car Media Players	140	1	0.3	46	4.6
2018-07-24	20:41:37	2	59173	Female	Web	Member	Auto & Accessories	Car Speakers	211	1	0.3	112	11.2
2018-11-08	08:38:49	8	41066	Female	Web	Member	Auto & Accessories	Car Body Covers	117	5	0.1	31.2	3.1
2018-04-18	19:28:06	7	50741	Female	Web	Member	Auto & Accessories	Car & Bike Care	118	1	0.3	26.2	2.6

e-commerce dataset 7 ×

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
29	16:59:24	USE data	0 row(s) affected	0.000 sec
30	16:59:24	USE data	0 row(s) affected	0.000 sec
31	16:59:25	USE data	0 row(s) affected	0.000 sec
32	16:59:26	USE data	0 row(s) affected	0.000 sec
33	17:01:09	USE data	0 row(s) affected	0.000 sec
34	17:01:09	SELECT * FROM `e-commerce dataset` LIMIT 0, 1000	1000 row(s) returned	0.000 sec / 0.000 sec



Search

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6/27/2025

## MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help



Navigator:

SCHEMAS

Filter objects

- ▼ **data**
  - ▶ Tables
  - ▶ data
  - ▶ e-commerce dataset
    - ▶ Columns
    - ▶ Indexes
    - ▶ Foreign Keys
    - ▶ Triggers
  - ▶ e-commerce\_dataset
  - ▶ Views
  - ▶ Stored Procedures
  - ▶ Functions
- ▼ salesdb
  - ▶ Tables
  - ▶ Views
  - ▶ Stored Procedures

Administration Schemas

Information

**Table: e-commerce dataset**

**Columns:**

Order_Date	date
Time	time
Aging	decimal
Customer_Id	int
Gender	text

Query 1 e-commerce dataset x

```

1 • USE data;
2
3
4 • SELECT * FROM `e-commerce dataset`;
5
6

```

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

	Order_Date	Time	Aging	Customer_Id	Gender	Device_Type	Customer_Login_type	Product_Category	Product	Sales	Quantity	Discount	Profit	Shipping_Cost
▶	2018-01-02	10:56:33	8	37077	Female	Web	Member	Auto & Accessories	Car Media Players	140	1	0.3	46	4.6
	2018-07-24	20:41:37	2	59173	Female	Web	Member	Auto & Accessories	Car Speakers	211	1	0.3	112	11.2
	2018-11-08	08:38:49	8	41066	Female	Web	Member	Auto & Accessories	Car Body Covers	117	5	0.1	31.2	3.1
	2018-04-18	19:28:06	7	50741	Female	Web	Member	Auto & Accessories	Car & Bike Care	118	1	0.3	26.2	2.6
	2018-08-13	21:18:39	9	53639	Female	Web	Member	Auto & Accessories	Tyre	250	1	0.3	160	16
	2018-07-09	21:57:05	8	39783	Female	Web	Member	Auto & Accessories	Bike Tyres	72	1	0.3	24	2.4
	2018-05-16	13:10:30	1	26767	Female	Web	Member	Auto & Accessories	Car Mat	54	1	0.3	54	5.4
	2018-06-23	18:29:09	7	20719	Female	Web	Member	Auto & Accessories	Car Seat Covers	114	5	0.2	22.6	2.3
	2018-07-29	11:55:02	7	46947	Female	Web	Member	Auto & Accessories	Car Pillow & Neck Rest	231	5	0.3	116.4	11.6

Object Info Session

e-commerce dataset 7 x

Read Only



Search

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6/27/2025

## MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help



## Navigator

## SCHEMAS

Filter objects

- ▼ **data**
  - ▶ Tables
    - ▶ data
    - ▶ e-commerce dataset
      - ▶ Columns
      - ▶ Indexes
      - ▶ Foreign Keys
      - ▶ Triggers
    - ▶ e-commerce\_dataset
  - ▶ Views
  - ▶ Stored Procedures
  - ▶ Functions
- ▼ **salesdb**
  - ▶ Tables
  - ▶ Views

Administration Schemas

## Information

Table: e-commerce dataset

## Columns:

Order_Date	te
Time	te
Aging	dc
Customer_Id	int
Gender	te

Object Info Session

Query 1 e-commerce dataset x

```
2
3
4 • SELECT * FROM `e-commerce dataset`;
5
6
7 • SELECT Customer_Id, Gender, Sales, Profit
8   FROM `e-commerce dataset`
9   WHERE Gender = 'Female'
10  ORDER BY Sales DESC;
11
12
13
```

Result Grid | Filter Rows: Export: Wrap Cell Content: □

	Customer_Id	Gender	Sales	Profit
▶	53639	Female	250	160
	56296	Female	250	140
	15976	Female	250	150
	33501	Female	250	165
	30549	Female	250	132.5
	51017	Female	250	120
	34295	Female	250	130
	55796	Female	250	145
	34973	Female	250	147.5
	51093	Female	250	120
	42462	Female	250	132.5

e-commerce dataset 8 x

Read Only



Search

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## MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help



Navigator

SCHEMAS

Filter objects

data

- Tables
- data
- e-commerce dataset
  - Columns
  - Indexes
  - Foreign Keys
  - Triggers
- e-commerce\_dataset
- Views
- Stored Procedures
- Functions

salesdb

- Tables
- Views

Stored Procedures

Administration

Schemas

Information

Table: e-commerce dataset

Columns:

- Order\_Date
- Time
- Aging
- Customer\_Id
- Gender

Object Info

Session

Query 1 e-commerce dataset ×

```
1 • USE data;
2
3 • SELECT * FROM `e-commerce_dataset`;
```

Limit to 1000 rows



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

	Order_Date	Time	Aging	Customer_Id	Gender	Device_Type	Customer_Login_type	Product_Category	Product	Sales	Quantity	Discount	Profit	Shipping_Cost
▶	1/2/2018	10:56:33	8	37077	Female	Web	Member	Auto & Accessories	Car Media Players	140	1	0.3	46	4.6
	7/24/2018	20:41:37	2	59173	Female	Web	Member	Auto & Accessories	Car Speakers	211	1	0.3	112	11.2
	11/8/2018	8:38:49	8	41066	Female	Web	Member	Auto & Accessories	Car Body Covers	117	5	0.1	31.2	3.1
	4/18/2018	19:28:06	7	50741	Female	Web	Member	Auto & Accessories	Car & Bike Care	118	1	0.3	26.2	2.6
	8/13/2018	21:18:39	9	53639	Female	Web	Member	Auto & Accessories	Tyre	250	1	0.3	160	16
	7/9/2018	21:57:05	8	39783	Female	Web	Member	Auto & Accessories	Bike Tyres	72	1	0.3	24	2.4
	5/16/2018	13:10:30	1	26767	Female	Web	Member	Auto & Accessories	Car Mat	54	1	0.3	54	5.4
	6/23/2018	18:29:09	7	20719	Female	Web	Member	Auto & Accessories	Car Seat Covers	114	5	0.2	22.6	2.3
	7/29/2018	11:55:02	7	46947	Female	Web	Member	Auto & Accessories	Car Pillow & Neck Rest	231	5	0.3	116.4	11.6
	5/16/2018	19:41:10	10	31839	Female	Web	Member	Auto & Accessories	Car Media Players	140	1	0.2	54.4	5.4

e-commerce\_dataset 10 ×

Read Only



Search

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## MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator: e-commerce dataset ×

SCHEMAS

Filter objects

data

- Tables
- e-commerce dataset
  - Columns
  - Indexes
  - Foreign Keys
  - Triggers
- e-commerce\_dataset
- Views
- Stored Procedures
- Functions

salesdb

- Tables
- Views

Administration Schemas

Information

Table: e-commerce dataset

Columns:

Order	Name	Type
1	Order_Date	date
2	Time	time
3	Aging	decimal
4	Customer_Id	int
5	Gender	text

Object Info Session e-commerce\_dataset 11 × Read Only

9+ Search

5:12 PM 6/27/2025

Query 1 e-commerce dataset ×

Limit to 1000 rows

```
4
5
6
7 • SELECT Customer_Id, Gender, Sales, Profit
8   FROM `e-commerce_dataset`
9   WHERE Gender = 'Female'
10  ORDER BY Sales DESC;
11
12
13
14
```

Result Grid | Filter Rows: Export: Wrap Cell Content: □

	Customer_Id	Gender	Sales	Profit
▶	53639	Female	250	160
	56296	Female	250	140
	15976	Female	250	150
	33501	Female	250	165
	30549	Female	250	132.5
	51017	Female	250	120
	34295	Female	250	130
	55796	Female	250	145
	34973	Female	250	147.5
	51093	Female	250	120
	42462	Female	250	132.5

## MySQL Workbench



Local instance MySQL80 x



File Edit View Query Database Server Tools Scripting Help



Navigator

SCHEMAS

Filter objects

data

Tables  
  data  
  e-commerce datasetColumns  
Indexes  
Foreign Keys  
Triggers  
e-commerce\_dataset

Views

Stored Procedures

Functions

salesdb

Tables

Views

Stored Procedures

Administration

Schemas

Information

Table: e-commerce dataset

Columns:

Order\_Date

te

Time

te

Aging

dc

Customer\_Id

int

Gender

te

Object Info

Session

Result 12 x

Read Only



Search

5:13 PM  
6/27/2025

```
12
13
14
15
16 • SELECT Product_Category, sum(Sales) AS Total_Sales, AVG(Profit) AS Avg_Profit
17   FROM `e-commerce_dataset`
18   GROUP BY Product_Category
19   ORDER BY Total_Sales DESC;
20
21
22
```

Product_Category	Total_Sales	Avg_Profit
Fashion	84610	80.83139999999989
Electronic	73366	65.9425999999994
Auto & Accessories	72205	63.41451612903225
Home & Furniture	64000	56.98720000000001

Result 12 x

## MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help



Navigator

SCHEMAS

Filter objects

data

Tables  
data  
e-commerce datasetColumns  
Indexes  
Foreign Keys  
Triggers  
e-commerce\_datasetViews  
Stored Procedures  
Functions

salesdb

Tables  
Views  
Stored Procedures

Administration Schemas

Information

Table: e-commerce dataset

Columns:  
Order\_Date  
Time  
Aging  
Customer\_Id  
Gender

Query 1 e-commerce dataset

```
15 • CREATE TABLE IF NOT EXISTS customers (
16     Customer_Id INT PRIMARY KEY,
17     Customer_Name VARCHAR(100),
18     Country VARCHAR(50)
19 );
20
21
22
23
24
25
26
27
28
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
42	17:08:09	USE data	0 row(s) affected	0.000 sec
43	17:08:10	USE data	0 row(s) affected	0.000 sec
44	17:09:27	SELECT * FROM `e-commerce_dataset` LIMIT 0, 1000	1000 row(s) returned	0.000 sec / 0.000 sec
45	17:11:33	SELECT Customer_Id, Gender, Sales, Profit FROM `e-commerce_dataset` WHERE...	737 row(s) returned	0.000 sec / 0.000 sec
46	17:13:03	SELECT Product_Category, sum(Sales) AS Total_Sales, AVG(Profit) AS Avg_Profit ...	4 row(s) returned	0.031 sec / 0.000 sec
47	17:15:34	CREATE TABLE IF NOT EXISTS customers ( Customer_Id INT PRIMARY KEY, ...	0 row(s) affected	0.078 sec



Search

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## MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator e-commerce dataset ×

SCHEMAS

Filter objects

data

- Tables
  - data
  - e-commerce dataset
    - Columns
    - Indexes
    - Foreign Keys
    - Triggers
  - e-commerce\_dataset
- Views
- Stored Procedures
- Functions

salesdb

- Tables
- Views
- Stored Procedures

Administration Schemas

Information

Table: e-commerce dataset

Columns:

- Order\_Date
- Time
- Aging
- Customer\_Id
- Gender

Action Output

#	Time	Action	Message	Duration / Fetch
43	17:08:10	USE data	0 row(s) affected	0.000 sec
44	17:09:27	SELECT * FROM 'e-commerce_dataset' LIMIT 0, 1000	1000 row(s) returned	0.000 sec / 0.000 sec
45	17:11:33	SELECT Customer_Id, Gender, Sales, Profit FROM 'e-commerce_dataset' WHERE...	737 row(s) returned	0.000 sec / 0.000 sec
46	17:13:03	SELECT Product_Category, sum(Sales) AS Total_Sales, AVG(Profit) AS Avg_Profit ...	4 row(s) returned	0.031 sec / 0.000 sec
47	17:15:34	CREATE TABLE IF NOT EXISTS customers (Customer_Id INT PRIMARY KEY, ...)	0 row(s) affected	0.078 sec
48	17:16:33	INSERT INTO customers (Customer_Id, Customer_Name, Country) VALUES (3707...	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0	0.047 sec

Object Info Session

9+ Search

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## MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

SQL SQL Editor Database Object Navigator

Navigator: e-commerce dataset

Create a new stored procedure in the active schema in the connected server

SCHEMAS

Filter objects

data

- Tables
- data
- e-commerce dataset
  - Columns
  - Indexes
  - Foreign Keys
  - Triggers
- e-commerce\_dataset
- Views
- Stored Procedures
- Functions

salesdb

- Tables
- Views

Administration Schemas

Information

Table: e-commerce dataset

Columns:

- Order\_Date
- Time
- Aging
- Customer\_Id
- Gender

Object Info Session customers 16 × Apply Revert

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

	Customer_Id	Customer_Name	Country
▶	37077	Alice Smith	USA
▶	41066	Emily Davis	Canada
▶	59173	Jane Doe	UK
*	NULL	NULL	NULL

9+ Search

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## MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help



Navigator

SCHEMAS

Filter objects

data

Tables

data

e-commerce dataset

Columns

Indexes

Foreign Keys

Triggers

e-commerce\_dataset

Views

Stored Procedures

Functions

salesdb

Tables

Views

Stored Procedures

Administration

Schemas

Information

Table: e-commerce dataset

Columns:

Order\_Date

te

Time

te

Aging

dc

Customer\_Id

int

Gender

te

Object Info

Session

Result 17 ×

Read Only



Search

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MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator: e-commerce dataset ×

SCHEMAS

Filter objects

data

Tables

e-commerce dataset

Columns

Indexes

Foreign Keys

Triggers

e-commerce\_dataset

Views

Stored Procedures

Functions

salesdb

Tables

Views

Stored Procedures

Administration Schemas

Query 1 e-commerce dataset ×

21

22

23

24

25

26

27 • INSERT INTO customers (Customer\_Id, Customer\_Name, Country) VALUES  
(37077, 'Alice Smith', 'USA'),  
(59173, 'Jane Doe', 'UK'),  
(41066, 'Emily Davis', 'Canada'),  
(56518, 'John Dave', 'Austria'),  
(11439, 'Joel Dispenza', 'Australia');

28

29

30

31

32

33

34

35

Information Output

Action Output

#	Time	Action	Message	Duration / Fetch
53	17:18:14	CREATE TABLE IF NOT EXISTS customers ( Customer_Id INT PRIMARY KEY, ...)	0 row(s) affected, 1 warning(s): 1050 Table 'customers' already exists	0.016 sec
54	17:18:14	INSERT INTO customers (Customer_Id, Customer_Name, Country) VALUES (37077, 'Alice Smith', 'USA')	Error Code: 1062. Duplicate entry '37077' for key 'customers.PRIMARY'	0.000 sec
55	17:19:59	SELECT * FROM `customers` LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
56	17:22:47	SELECT e.Customer_Id, c.Customer_Name, e.Product, e.Sales FROM...	3 row(s) returned	0.000 sec / 0.000 sec
57	17:28:30	INSERT INTO customers (Customer_Id, Customer_Name, Country) VALUES (56518, 'John Dave', 'Austria')	Error Code: 1062. Duplicate entry '37077' for key 'customers.PRIMARY'	0.000 sec
58	17:29:10	INSERT INTO customers (Customer_Id, Customer_Name, Country) VALUES (11439, 'Joel Dispenza', 'Australia')	2 row(s) affected Records: 2 Duplicates: 0 Warnings: 0	0.032 sec

Table: e-commerce dataset

Columns:

- Order\_Date
- Time
- Aging
- Customer\_Id
- Gender

Object Info Session

9+ Search

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## MySQL Workbench



Local instance MySQL80 ×



File Edit View Query Database Server Tools Scripting Help



Navigator

Query 1 e-commerce dataset ×

SCHEMAS

Filter objects

data

Tables  
data  
e-commerce datasetColumns  
Indexes  
Foreign Keys  
Triggers

e-commerce\_dataset

Views

Stored Procedures

Functions

salesdb

Tables

Views

Stored Procedures

Administration

Schemas

Information

Table: e-commerce dataset

Columns:

Order\_Date

Time

Aging

Customer\_Id

Gender

```
33
34
35
36
37
38 •   SELECT * FROM `customers`;
39
40
41
42
43
44
45
```

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

	Customer_Id	Customer_Name	Country
▶	11439	Joel Dispenza	Australia
	37077	Alice Smith	USA
	41066	Emily Davis	Canada
	56518	John Dave	Austria
	59173	Jane Doe	UK
*	HULL	HULL	HULL

Object Info Session

customers 18 ×

Apply Revert



Search

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## MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

data

- Tables
- e-commerce dataset
- Columns
- Indexes
- Foreign Keys
- Triggers
- e-commerce\_dataset
- Views
- Stored Procedures
- Functions

salesdb

- Tables
- Views

Administration Schemas

Information

Table: e-commerce dataset

Columns:

Order_Date	te
Time	te
Aging	dc
Customer_Id	int
Gender	te

Object Info Session Result 19 x Read Only

9+ Search

Query 1 e-commerce dataset x

44

45

46 • SELECT

47     e.Customer\_Id,

48     c.Customer\_Name,

49     e.Product,

50     e.Sales

51    FROM

52     `e-commerce\_dataset` AS e

53    INNER JOIN

54       customers AS c

55    ON

56       e.Customer\_Id = c.Customer\_Id;

Result Grid | Filter Rows: Export: Wrap Cell Content: □

	Customer_Id	Customer_Name	Product	Sales
▶	37077	Alice Smith	Car Media Players	140
	59173	Jane Doe	Car Speakers	211
	41066	Emily Davis	Car Body Covers	117
	56518	John Dave	Tyre	250
	11439	Joel Dispenza	Casula Shoes	122

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## MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator: e-commerce dataset ×

SCHEMAS

Filter objects

data

- Tables
- e-commerce dataset
  - Columns
  - Indexes
  - Foreign Keys
  - Triggers
- e-commerce\_dataset
- Views
- Stored Procedures
- Functions

salesdb

- Tables
- Views

Administration Schemas

Information

Table: e-commerce dataset

Columns:

Order_Date	Time	Aging	Customer_Id	Gender
te	te	dc	int	te

Object Info Session Result 26 × Read Only

Result Grid | Filter Rows: Export: Wrap Cell Content: □

Customer_Id
55746
51093
24997
17856
22677
71560
90515

9+ Search

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## MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help



Navigator

SCHEMAS

Filter objects

data

Tables  
e-commerce dataset  
e-commerce\_datasetColumns  
Indexes  
Foreign Keys  
TriggersViews  
Stored Procedures  
Functions

salesdb

Tables  
Views

Stored Procedures

Administration Schemas

Information

Table: e-commerce\_dataset

Columns:

Order\_Date  
Time  
Aging  
Customer\_Id  
Gender

Object Info Session

Query 1 e-commerce dataset

```
81
82 •      CREATE VIEW sales_summary AS
83     SELECT Product_Category, sum(Sales) AS Total_Sales, sum(Profit) AS Total_Profit
84     FROM `e-commerce_dataset`
85     GROUP BY Product_Category;
86
87
88
89
90
91
92
93
94
95
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
66	17:35:23	SELECT Customer_Id FROM ( SELECT Customer_Id, sum(Sales) AS Total_Sales... 12 row(s) returned		0.000 sec / 0.000 sec
67	17:35:35	stomers with total sales over 100 SELECT Customer_Id FROM ( SELECT Custom... Error Code: 1064. You have an error in your SQL syntax; check the manual that corr...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corr...	0.000 sec
68	17:35:51	SELECT Customer_Id FROM ( SELECT Customer_Id, sum(Sales) AS Total_Sales... 7 row(s) returned		0.000 sec / 0.000 sec
69	17:37:14	SELECT sum(Profit) AS Total_Profit, AVG(Discount) AS Average_Discount FROM `... 1 row(s) returned		0.032 sec / 0.000 sec
70	17:38:59	SELECT sum(Profit) AS Total_Profit, AVG(Discount) AS Average_Discount FROM `... 1 row(s) returned		0.000 sec / 0.000 sec
71	17:39:31	CREATE VIEW sales_summary AS SELECT Product_Category, sum(Sales) AS Tot... 0 row(s) affected		0.031 sec



Search

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## MySQL Workbench



## Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help



## Navigator

## SCHEMAS

Filter objects

## data

- Tables
- e-commerce dataset
- e-commerce\_dataset

- Columns
- Indexes
- Foreign Keys
- Triggers

## Views

## Stored Procedures

## Functions

## salesdb

## Tables

## Views

## Stored Procedures

Administration Schemas

## Information

## Table: e-commerce\_dataset

## Columns:

Order_Date	te
Time	te
Aging	int
Customer_Id	int
Gender	te

Object Info Session

## Query 1 e-commerce dataset x

```
87  
88  
89  
90  
91 •   SELECT * FROM sales_summary;  
92  
93  
94  
95  
96  
97  
98  
99
```

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

	Product_Category	Total_Sales	Total_Profit
▶	Auto & Accessories	72205	31453.599999999995
	Fashion	84610	40415.699999999946
	Electronic	73366	32971.299999999974
	Home & Furniture	64000	28493.600000000006

sales\_summary 29 x

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Search

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## MySQL Workbench

Local instance MySQL80 x

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## Navigator

## SCHEMAS

Filter objects

## data

- Tables
  - data
  - e-commerce dataset
- e-commerce\_dataset
  - Columns
  - Indexes
  - Foreign Keys
  - Triggers
- Views
- Stored Procedures
- Functions

Administration Schemas

## Information

## Table: e-commerce\_dataset

## Columns:

Order_Date	te
Time	te
Aging	int
Customer_Id	int
Gender	te

Object Info Session

Query 1 e-commerce dataset x

```
90
91
92 • CREATE INDEX idx_customer_id ON `e-commerce_dataset` (Customer_Id);
93
94
95
96
97
98
99
100
101
102
103
104
```

## Output

## Action Output

#	Time	Action	Message	Duration / Fetch
69	17:37:14	SELECT sum(Profit) AS Total_Profit, AVG(Discount) AS Average_Discount FROM `e-commerce_dataset`	1 row(s) returned	0.032 sec / 0.000 sec
70	17:38:59	SELECT sum(Profit) AS Total_Profit, AVG(Discount) AS Average_Discount FROM `e-commerce_dataset`	1 row(s) returned	0.000 sec / 0.000 sec
71	17:39:31	CREATE VIEW sales_summary AS SELECT Product_Category, sum(Sales) AS Total_Sales, sum(Profit) AS Total_Profit, AVG(Discount) AS Average_Discount FROM `e-commerce_dataset` GROUP BY Product_Category	0 row(s) affected	0.031 sec
72	17:40:13	SELECT * FROM sales_summary LIMIT 0, 1000	4 row(s) returned	0.015 sec / 0.000 sec
73	17:41:23	- Index on Customer_Id CREATE INDEX idx_customer_id ON `e-commerce_dataset` (Customer_Id)	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'CREATE INDEX idx_customer_id ON `e-commerce_dataset` (Customer_Id)' at line 1	0.000 sec
74	17:43:44	CREATE INDEX idx_customer_id ON `e-commerce_dataset` (Customer_Id)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.109 sec



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## MySQL Workbench



Local instance MySQL80 ×



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Navigator: SCHEMAS

Filter objects

data

- Tables
- e-commerce dataset
- e-commerce\_dataset
  - Columns
  - Indexes
  - Foreign Keys
  - Triggers

- Views
- Stored Procedures
- Functions

salesdb

Tables

Administration Schemas

Information

Table: e-commerce\_dataset

Columns:  
Order\_Date  
Time  
Aging  
Customer\_Id  
Gender

Object Info Session

Query Completed

Query 1 TASK 4 SQL FOR DATA ANALYSIS

```
51
52
53    -- LEFT JOIN
54 •   SELECT c.Customer_Id, c.Customer_Name, e.Product, e.Sales
55     FROM customers AS c
56     LEFT JOIN `e-commerce_dataset` AS e ON c.Customer_Id = e.Customer_Id;
57
58
59
60
61
62
63
```

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

	Customer_Id	Customer_Name	Product	Sales
▶	11439	Joel Dispenza	Casula Shoes	122
	37077	Alice Smith	Car Media Players	140
	41066	Emily Davis	Car Body Covers	117
	56518	John Dave	Tyre	250
	59173	Jane Doe	Car Speakers	211

Result 34 ×

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## MySQL Workbench

Local instance MySQL80 ×

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Navigator:

## SCHEMAS

Filter objects

## data

- Tables
  - customers
  - data
  - e-commerce dataset
  - e-commerce\_dataset
- Views
  - Stored Procedures
  - Functions

## salesdb

## sys

Administration Schemas

Information:

No object selected

Query 1 TASK 4 SQL FOR DATA ANAL...

```
107
108
109
110 • CREATE INDEX idx_product_category ON `e-commerce_dataset` (Product_Category(20));
111
112
113
114
115
116
117
118
119
120
```

Output:

Action Output			Message	Duration / Fetch
#	Time	Action		
1	18:20:45	CREATE INDEX idx_product_category ON `e-commerce_dataset` (Product_Category(...)	Error Code: 1046. No database selected Select the default DB to be used by double-clicking on the table.	0.000 sec
2	18:21:29	USE data	0 row(s) affected	0.000 sec
3	18:21:47	CREATE INDEX idx_product_category ON `e-commerce_dataset` (Product_Category(...)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.094 sec

Object Info Session

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## MySQL Workbench

Local instance MySQL80 x

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Navigator

SCHEMAS

Filter objects

data

Tables

customers

data

e-commerce dataset

e-commerce\_dataset

Views

Stored Procedures

Functions

salesdb

sys

Administration Schemas

Information

No object selected

Query 1 TASK 4 SQL FOR DATA ANAL...

```
63     LEFT JOIN `e-commerce_dataset` AS e ON c.Customer_Id = e.Customer_Id;
64
65
66
67
68     -- RIGHT JOIN
69 •     SELECT c.Customer_Id, c.Customer_Name, e.Product, e.Sales
70     FROM customers AS c
71     RIGHT JOIN `e-commerce_dataset` AS e ON c.Customer_Id = e.Customer_Id;
72
73
74
```

	Customer_Id	Customer_Name	Product	Sales
▶	37077	Alice Smith	Car Media Players	140
	59173	Jane Doe	Car Speakers	211
	41066	Emily Davis	Car Body Covers	117
	HULL		Car & Bike Care	118
	HULL		Tyre	250
	HULL		Bike Tyres	72
	HULL		Car Mat	54
	HULL		Car Seat Covers	114
	HULL		Car Pillow & Neck Rest	231
	HULL		Car Media Players	140

Object Info Session

Result 1 x

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## MySQL Workbench

Local instance MySQL80 x

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Navigator

## SCHEMAS

Filter objects

- ▼ **data**
  - ▶ **Tables**
    - ▶ customers
    - ▶ data
    - ▶ e-commerce dataset
    - ▶ e-commerce\_dataset
  - ▶ **Views**
    - ▶ Stored Procedures
    - ▶ Functions
- ▶ salesdb
- ▶ sys

Administration Schemas

Information

Query 1 TASK 4 SQL FOR DATA ANAL...

```
108
109
110      -- CHECKING THE INDEXES ARE CREATED
111 • SHOW INDEXES FROM `e-commerce_dataset`;
112
113
114
115
116
117
118
119
```

No object selected

	Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment	Visi
▶	e-commerce_dataset	1	idx_customer_id	1	Customer_Id	A	1971	NULL	NULL	YES	BTREE			YES
	e-commerce_dataset	1	idx_product_category	1	Product_Category	A	4	20	NULL	YES	BTREE			YES

Object Info Session

Result 2 x

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## MySQL Workbench



Local instance MySQL80 x

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Navigator

SCHEMAS

Filter objects

data

Tables

customers

data

e-commerce dataset

e-commerce\_dataset

Views

Stored Procedures

Functions

salesdb

sys

Administration Schemas

Information

No object selected

Query 1 TASK 4 SQL FOR DATA ANAL...

```
85
86
87
88      -- AGGREGATE FUNCTION : Overall Profit and Average Discount
89 •  SELECT sum(Profit) AS Total_Profit, AVG(Discount) AS Average_Discount
90    FROM `e-commerce_dataset`;
91
92
93
94
95
96
```

Total_Profit	Average_Discount
133334.20000000042	0.2826653306613213

Result 3 x

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## MySQL Workbench



Local instance MySQL80 ×

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Navigator

SCHEMAS

Filter objects

data

- Tables
  - customers
  - data
  - e-commerce dataset
  - e-commerce\_dataset
- Views
  - Stored Procedures
  - Functions

salesdb

sys

Administration Schemas

Information

No object selected

Query 1 TASK 4 SQL FOR DATA ANAL...

```
109  
110  
111      -- SELECTING DATA FROM VIEW  
112 •   SELECT * FROM sales_summary;  
113  
114  
115  
116  
117  
118  
119  
120
```

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

	Product_Category	Total_Sales	Total_Profit
▶	Auto & Accessories	72205	31453.599999999995
	Fashion	84610	40415.699999999946
	Electronic	73366	32971.299999999974
	Home & Furniture	64000	28493.600000000006

Object Info Session

sales\_summary 4 ×

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