

MySQL Workbench

Local instance MySQL80 (proj... x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- assignment
- bpit
- course_db
- course_db1
- hr
- project
 - Tables
 - Views
 - Stored Procedures
 - Functions

Administration Schemas

Information

No object selected

sql_microproject* x toy_updated_reformed

Limit to 50000 rows

```
1 • create database project;
2 • use project;
3 -- 1) Display the Customer Count Based on the City
4 • SELECT city, COUNT(customer_id) AS customer_count
5 FROM customer
6 GROUP BY city;
7 -- 2) Display the customer who has availed rental more than two toys currently.
8 • SELECT DISTINCT c.customer_name
9 FROM Customer c
10 JOIN toy_rental r ON c.customer_id = r.customer_id
11 GROUP BY c.customer_id, c.customer_name
12 HAVING COUNT(r.toy_id) > 2
13 ORDER BY c.customer_name ASC;
14 • select * from customer;
15
16 -- 3) Display the toys which were not at all rented out and display toy names in the ascending order
17 -- of the toy id.
18 • SELECT toy_id, toy_name
19 FROM Toy
```

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 38	16:22:56	SELECT DISTINCT c.customer_name FROM Customer c JOIN toy_rental r ON c.customer_id = r.customer_id	3 row(s) returned	0.000 sec / 0.000 sec
✗ 39	16:23:43	SELECT DISTINCT c.customer_name FROM Customer c JOIN toy_rental r ON c.customer_id = r.customer_id	Error Code: 3065. Expression #1 of ORDER BY clause is not in SELECT list, references column 'c.customer_id' which is not in the table	0.000 sec
✓ 40	16:23:59	SELECT DISTINCT c.customer_name FROM Customer c JOIN toy_rental r ON c.customer_id = r.customer_id	3 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

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Administration Schemas

Information: No object selected

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```
16 -- 3) Display the toys which were not at all rented out and display toy names in the ascending order
17 -- of the toy id.
18 • SELECT toy_id, toy_name
19 FROM Toy
20 WHERE toy_id NOT IN (SELECT DISTINCT toy_id FROM toy_rental)
21 ORDER BY toy_id ASC;
22
23 -- 4) Display the toys which was rented out on 20/05/2020
24 • SELECT *
25 FROM toy_rental
26 WHERE rental_id IN (
27     SELECT DISTINCT rental_id
28     FROM toy_rental
29     WHERE rental_start_date = '2020-05-20');
30
31 -- 5) Fetch the toys which were on rent for maximum duration.
32 • SELECT toy_name, DATEDIFF(rental_end_date, rental_start_date) AS duration
33 FROM toy_rental
34 JOIN Toy ON toy_rental.toy_id = Toy.toy_id
```

Output: Action Output

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✓ 38	16:22:56	SELECT DISTINCT c.customer_name FROM Customer c JOIN toy_rental r ON c.customer_i...	3 row(s) returned	0.000 sec / 0.000 sec
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```
31 -- 5) Fetch the toys which were on rent for maximum duration.
32 • SELECT toy_name, DATEDIFF(rental_end_date, rental_start_date) AS duration
33 FROM toy_rental
34 JOIN Toy ON toy_rental.toy_id = Toy.toy_id
35 ORDER BY duration DESC
36 LIMIT 1;
37
38 • select * from toy_rental;
39
40 -- 6) Display the Rental details of a customer "John"
41
42 • SELECT *
43 FROM toy_rental
44 WHERE customer_id = (SELECT customer_id FROM Customer WHERE customer_name = 'John');
45
46 -- 7) Fetch the user information who have not returned the toys after the rental period.
47 • SELECT *
48 FROM customer
49 WHERE customer_id=(select customer_id from toy_rental where status='pending');
```

SQLAdditions

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Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 38	16:22:56	SELECT DISTINCT c.customer_name FROM Customer c JOIN toy_rental r ON c.customer_id = r.customer_id	3 row(s) returned	0.000 sec / 0.000 sec
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✓ 40	16:23:59	SELECT DISTINCT c.customer_name FROM Customer c JOIN toy_rental r ON c.customer_id = r.customer_id	3 row(s) returned	0.000 sec / 0.000 sec

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```
50
51 -- 8) Identify the customers who have opted for more than 1 toy for rental.
52 • SELECT c.customer_id, c.customer_name, c.password, c.city, c.state, c.zip, c.country
53 FROM Customer c
54 JOIN (
55     SELECT customer_id
56     FROM toy_rental
57     GROUP BY customer_id
58     HAVING COUNT(DISTINCT toy_id) > 1) sub ON c.customer_id = sub.customer_id;
59
60
61 • select * from customer;
62 -- 9) Display the customer details who has availed electronic toys for rental.
63 -- Note: sort the output based on customer_id.
64 • SELECT c.customer_id, c.customer_name, c.city
65 FROM Customer c
66 JOIN toy_rental r ON c.customer_id = r.customer_id
67 JOIN Toy t ON r.toy_id = t.toy_id
68 WHERE t.toy_type = 'electronics'
```

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Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 38	16:22:56	SELECT DISTINCT c.customer_name FROM Customer c JOIN toy_rental r ON c.customer_id = r.customer_id	3 row(s) returned	0.000 sec / 0.000 sec
✗ 39	16:23:43	SELECT DISTINCT c.customer_name FROM Customer c JOIN toy_rental r ON c.customer_id = r.customer_id ORDER BY	Error Code: 3065. Expression #1 of ORDER BY clause is not in SELECT list, references column 'c.customer_name' which is not in the table	0.000 sec
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61 • select * from customer;
62 -- 9) Display the customer details who has availed electronic toys for rental.
63 -- Note: sort the output based on customer_id.
64 • SELECT c.customer_id, c.customer_name, c.city
65 FROM Customer c
66 JOIN toy_rental r ON c.customer_id = r.customer_id
67 JOIN Toy t ON r.toy_id = t.toy_id
68 WHERE t.toy_type = 'electronics'
69 ORDER BY c.customer_id;
70
71 -- 10) Display the ids of top 2 customers in descending order of total revenue generated for each customer.
72 • SELECT c.customer_id, c.customer_name, SUM(r.total_amount) AS total_revenue
73 FROM Customer c
74 JOIN toy_rental r ON c.customer_id = r.customer_id
75 GROUP BY c.customer_id, c.customer_name
76 ORDER BY total_revenue DESC
77 LIMIT 2;
78
```

Limit to 50000 rows

SQLAdditions

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Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
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✓ 40	16:23:59	SELECT DISTINCT c.customer_name FROM Customer c JOIN toy_rental r ON c.customer_id = r.customer_id	3 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

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- Administration
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Information

No object selected

toy_updated_reformed* sql_mcioproject x

Limit to 50000 rows

```
1 create database project;
2 use project;
3 -- 1) Display the Customer Count Based on the City
4 SELECT city, COUNT(customer_id) AS customer_count
5 FROM customer
6 GROUP BY city;
```

Result Grid

city	customer_count
Chennai	3
Bangalore	1
Mumbai	2
New Delhi	1
Hyderabad	2
Delhi	1
Vizag	1
Jaipur	2
Kolkatta	1

Result: 1 x

Read Only Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 157	23:42:14	select * from toy_rental LIMIT 0, 50000	22 row(s) returned	0.000 sec / 0.000 sec
✗ 158	23:42:22	SELECT city, COUNT(customer_id) AS customer_count FROM project GROUP BY city LIM...	Error Code: 1146 Table 'project.project' doesn't exist	0.000 sec
✓ 159	23:42:47	SELECT city, COUNT(customer_id) AS customer_count FROM customer GROUP BY city LI...	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

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MySQL Workbench

Local instance MySQL80 (proj_...)

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Administration Schemas

Information

No object selected

SQL Editor

sq_microproject toy_updated_reformed

Limit to 50000 rows

```
-- 2) Display the customer who has availed rental more than two toys currently.
SELECT DISTINCT c.customer_name
FROM Customer c
JOIN toy_rental r ON c.customer_id = r.customer_id
GROUP BY c.customer_id, c.customer_name
HAVING COUNT(r.toy_id) > 2
ORDER BY c.customer_name ASC;
```

Result Grid

	customer_name
▶	Alhyna
▶	Jommy
▶	Kanishk

Result 24 x

Read Only

Context Help Shippets

Output

Action Output

#	Time	Action	Message	Duration / Feich
38	16:22:58	SELECT DISTINCT c.customer_name FROM Customer c JOIN toy_rental r ON c.customer_id = r.customer_id	3 row(s) returned	0.000 sec / 0.000 sec
39	16:23:43	SELECT DISTINCT c.customer_name FROM Customer c JOIN toy_rental r ON c.customer_id = r.customer_id	Error Code: 3065. Expression #1 of ORDER BY clause is not in SELECT list, references column 'c.customer_id' which is not in the table.	0.000 sec
40	16:23:59	SELECT DISTINCT c.customer_name FROM Customer c JOIN toy_rental r ON c.customer_id = r.customer_id	3 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

SQLAdditions

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MySQL Workbench

Local instance MySQL80 - W... x unconnected x

File Edit View Query Database Server Tools Scripting Help

Navigator: Filter objects

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Information: No object selected

toy_updated_reformed* sql_microproject* Limit to 50000 rows

```
14
15 -- 3) Display the toys which were not at all rented out and display toy names in the ascending order
16 -- of the toy id.
17 • SELECT toy_id, toy_name
18 FROM Toy
19 WHERE toy_id NOT IN (SELECT DISTINCT toy_id FROM toy_rental)
20 ORDER BY toy_id ASC;
```

Result Grid

toy_id	toy_name
5201	First Builders
5202	Fill and Spill Coin
5204	Posting Challenge
5214	SICK Science
5215	Count Colors Band

Toy 19 x Apply Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
178	00:01:33	SELECT toy_id, toy_name FROM Toys WHERE toy_id NOT IN (SELECT DISTINCT toy_id ...	Error Code: 1146. Table 'project.toys' doesn't exist	0.000 sec
179	00:01:54	SELECT toy_id, toy_name FROM Toy WHERE toy_id NOT IN (SELECT DISTINCT toy_id F...	Error Code: 1146. Table 'project.rentals' doesn't exist	0.000 sec
180	00:02:13	SELECT toy_id, toy_name FROM Toy WHERE toy_id NOT IN (SELECT DISTINCT toy_id F...	5 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

SQLAdditions: Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

MySQL Workbench

Local instance MySQL80 - W... x unconnected x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- assignment
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- bolt
- course_db

Administration Schemas

Information

No object selected

toy_updated_reformed* sql_microproject* x

Limit to 50000 rows

```
-- 4) Display the toys which was rented out on 20/05/2020
SELECT *
FROM toy_rental
WHERE rental_id IN (
  SELECT DISTINCT rental_id
  FROM toy_rental
  WHERE rental_start_date = '2020-05-20');
```

Result Grid

rental_id	customer_id	toy_id	rental_start_date	rental_end_date	rental_Amount_per_day	total_amount	fine	status
2515	1012	5203	2020-05-20	2020-05-30	25	250	NULL	Received
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

toy_rental 15 x

Apply Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
184	00:07:39	SELECT * FROM toy_rental WHERE toy_id IN (SELECT DISTINCT toy_id FROM toy_...	3 row(s) returned	0.000 sec / 0.000 sec
185	00:09:30	SELECT * FROM toy_rental WHERE toy_id IN (SELECT DISTINCT rental_id FROM to...	0 row(s) returned	0.000 sec / 0.000 sec
186	00:10:04	SELECT * FROM toy_rental WHERE rental_id IN (SELECT DISTINCT rental_id FROM...	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80 - W... x unconnected x

File Edit View Query Database Server Tools Scripting Help

Navigator: toy_updated_reformed* sql_microproject*

Filter objects

- assignment
- Tables
- Views
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- course_db
- administration
- Schemas

No object selected

29

30 -- 5) Fetch the toys which were on rent for maximum duration.

31 • SELECT toy_name, DATEDIFF(rental_end_date, rental_start_date) AS duration

32 FROM toy_rental

33 JOIN Toy ON toy_rental.toy_id = Toy.toy_id

34 ORDER BY duration DESC

35 LIMIT 1;

36

Result Grid

	toy_name	duration
▶	Brick Buster	122

SQLAdditions: Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result 18 x Read Only Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
195	00:18:57	SELECT toy_id, toy_name, DATEDIFF(rental_end_date, rental_start_date) AS duration FRO...	Error Code: 1052. Column 'toy_id' in field list is ambiguous	0.000 sec
196	00:19:31	SELECT toy_id, toy_name, DATEDIFF(rental_end_date, rental_start_date) AS duration FRO...	Error Code: 1052. Column 'toy_id' in field list is ambiguous	0.000 sec
197	00:19:52	SELECT toy_name, DATEDIFF(rental_end_date, rental_start_date) AS duration FROM toy_r...	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

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Navigator

Filter objects

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Administration Schemas

Information

No object selected

Query 1 sql_microproject x

```
37 • select * from toy_rental;
38
39 -- 6)
40 • SELECT *
41 FROM toy_rental
42 WHERE customer_id = (SELECT customer_id FROM Customer WHERE customer_name = 'John');
43
44
```

Limit to 50000 rows

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result Grid

rental_id	customer_id	toy_id	rental_start_date	rental_end_date	rental_Amount_per_day	total_amount	fine	status
2409	1004	5206	2020-02-20	2020-03-25	25	1525	100	Received

toy_rental 1 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	15:31:26	SELECT * FROM toy_rental WHERE customer_id = (SELECT customer_id FROM Customer W...	Error Code: 1046. No database selected Select the default DB to be used by double-clicking it...	0.000 sec
2	15:31:33	use project	0 row(s) affected	0.000 sec
3	15:31:40	SELECT * FROM toy_rental WHERE customer_id = (SELECT customer_id FROM Customer W...	1 row(s) returned	0.016 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 - W... x unconnected x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

assignment

Tables

Views

Stored Procedures

Functions

bpit

course_db

Administration Schemas

Information

No object selected

toy_updated_reformed" sql_microproject" x

Limit to 50000 rows

51

52 -- 7) Fetch the user information who have not returned the toys after the rental period.

53

54 • SELECT *

55 FROM customer

56 WHERE customer_id = (SELECT customer_id FROM toy_rental WHERE status='Pending');

57

58 • select * from toy_rental;

Result Grid

Filter Rows:

Edit: Export/Import: Wrap Cell Content:

	customer_id	Customer_Name	password	City	State	zip	country
▶	1012	Jonmy	mmy@75	Kolkata	WestBengal	700001	India
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

customer 56 x Apply

Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
248	12:23:18	SELECT * FROM toy_rental WHERE customer_id = (SELECT customer_id FROM customer ...	Error Code: 1242. Subquery returns more than 1 row	0.297 sec
249	12:24:01	SELECT * FROM toy_rental WHERE customer_id = (SELECT customer_id FROM customer ...	1 row(s) returned	0.000 sec / 0.000 sec
250	12:24:39	SELECT * FROM customer WHERE customer_id = (SELECT customer_id FROM toy_rental ...	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

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Information

No object selected

```
50 -- 8) Identify the customers who have opted for more than 1 toy for rental.
51 SELECT c.customer_id, c.customer_name, c.password, c.city, c.state, c.zip, c.country
52 FROM Customer c
53 JOIN (
54     SELECT customer_id
55     FROM toy_rental
56     GROUP BY customer_id
57     HAVING COUNT(DISTINCT toy_id) > 1) sub ON c.customer_id = sub.customer_id;
```

Result Grid

	customer_id	customer_name	password	city	state	zip	country
▶	1001	Kanishk	Welcome@123	Chennai	TamilNadu	600075	India
	1002	Krithick	Krithi@321	Bangalore	Karnataka	560001	India
	1006	Kishore	Shore@78	Chennai	TamilNadu	600075	India
	1010	Alvyna	vyna@385	Vizag	Andhra	530013	India
	1012	Jommy	mmy@75	Kolkatta	WestBengal	700001	India

Result 15 x

Read Only

Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 28	16:09:20	SELECT customer_id FROM toy_rental GROUP BY customer_id HAVING COUNT(DISTINC...	5 row(s) returned	0.000 sec / 0.000 sec
✓ 29	16:11:34	SELECT c.customer_name, c.password, c.city, c.state, c.zip, c.country FROM Customer c J...	5 row(s) returned	0.000 sec / 0.000 sec
✓ 30	16:12:27	SELECT c.customer_id, c.customer_name, c.password, c.city, c.state, c.zip, c.country FRO...	5 row(s) returned	0.000 sec / 0.000 sec

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sql_microproject toy_updated_reformed

Limit to 50000 rows

```
57 -- 9) Display the customer details who has availed electronic toys for rental
58 -- Note: sort the
59 SELECT c.customer_id, c.customer_name, c.city
60 FROM Customer c
61 JOIN toy_rental r ON c.customer_id = r.customer_id
62 JOIN Toy t ON r.toy_id = t.toy_id
63 WHERE t.toy_type = 'electronics'
64 ORDER BY c.customer_id;
```

Result Grid

customer_id	customer_name	city
1001	Kanishk	Chennai
1004	John	New Delhi
1010	Alvyna	Vizag
1012	Jommy	Kolkatta

Result 9 x

Read Only

Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
16	15:44:43	SELECT customer_id FROM toy_rental GROUP BY customer_id HAVING COUNT(DISTINC...	5 row(s) returned	0.000 sec / 0.000 sec
17	15:47:05	SELECT c.customer_id, c.customer_name, c.city FROM Customer c JOIN toy_rental r ON c...	0 row(s) returned	0.000 sec / 0.000 sec
18	15:47:36	SELECT c.customer_id, c.customer_name, c.city FROM Customer c JOIN toy_rental r ON c...	4 row(s) returned	0.016 sec / 0.000 sec

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No object selected

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Limit to 50000 rows

```
-- 10) Display the ids of top 2 customers in descending order of total revenue generated for each customer.
SELECT c.customer_id, c.customer_name, SUM(r.total_amount) AS total_revenue
FROM Customer c
JOIN toy_rental r ON c.customer_id = r.customer_id
GROUP BY c.customer_id, c.customer_name
ORDER BY total_revenue DESC
LIMIT 2;
```

Result Grid

customer_id	customer_name	total_revenue
1010	Alvyna	4130
1001	Kanishk	2390

Result: 12 x

Read Only

Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
25	15:56:36	SELECT customer_id, Customer_Name, SUM(total_amount) AS total_revenue FROM custo...	Error Code: 1054. Unknown column 'total_amount' in 'field list'	0.000 sec
26	16:02:54	SELECT c.customer_id, c.customer_name, SUM(r.rental_cost) AS total_revenue FROM Cust...	Error Code: 1146. Table 'project customers' doesn't exist	0.000 sec
27	16:03:33	SELECT c.customer_id, c.customer_name, SUM(r.total_amount) AS total_revenue FROM C...	2 row(s) returned	0.000 sec / 0.000 sec

Object: info Session

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.