

MySQL Workbench

Local instance MySQL80

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No object selected

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Limit to 1000 rows

1 • create database music_store;

2

3 • use music_store;

4

5 -- 1) Who is the senior most employee based on job title?

6 • select * from employee;

7 • select employee_id, first_name, last_name, title, levels, hire_date from employee order by levels desc limit 1;

8

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Fetch rows:

	employee_id	first_name	last_name	title	levels	hire_date
▶	1	Andrew	Adams	General Manager	L6	14-08-2016 00:00

employee 16

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 12	20:28:09	select customer.customer_id, customer.first_name, customer.last_name, sum(invoice.total) as total from custom...	1 row(s) returned	0.000 sec / 0.000 sec
✓ 13	20:28:09	select DISTINCT email, first_name, last_name from customer JOIN invoice ON customer.customer_id = invoic...	58 row(s) returned	0.125 sec / 0.000 sec
✓ 14	20:28:09	select artist.artist_id, artist.name, count(artist.artist_id) as number_of_songs from track join album2 on album2.al...	8 row(s) returned	0.000 sec / 0.000 sec
✓ 15	20:28:09	select * from track LIMIT 0, 1000	362 row(s) returned	0.000 sec / 0.000 sec
✓ 16	20:28:09	select name, milliseconds from track where milliseconds > (select avg(milliseconds) from track) order by milliseco...	168 row(s) returned	0.000 sec / 0.000 sec
✓ 17	20:34:00	use music_store	0 row(s) affected	0.000 sec
✓ 18	20:34:03	select employee_id, first_name, last_name, title, levels, hire_date from employee order by levels desc limit 1	1 row(s) returned	0.000 sec / 0.000 sec

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Limit to 1000 rows

7 • select employee_id, first_name, last_name, title, levels, hire_date from employee order by levels desc limit 1;

8

9

10 -- 2) Which countries have the most invoices?

11 • select * from invoice;

12 • select billing_country, count(*) as count_of_invoices from invoice group by billing_country order by count_of_invoices desc;

13

14

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	billing_country	count_of_invoices
▶	USA	131
	Canada	76
	Brazil	61
	France	50
	Germany	41
	Czech Republic	30
	Portugal	29
	United Kingdom	28
	India	21

Result 17

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 13	20:28:09	select DISTINCT email, first_name, last_name from customer JOIN invoice ON customer.customer_id = invoic...	58 row(s) returned	0.125 sec / 0.000 sec
✓ 14	20:28:09	select artist.artist_id, artist.name, count(artist.artist_id) as number_of_songs from track join album2 on album2.al...	8 row(s) returned	0.000 sec / 0.000 sec
✓ 15	20:28:09	select * from track LIMIT 0, 1000	362 row(s) returned	0.000 sec / 0.000 sec
✓ 16	20:28:09	select name, milliseconds from track where milliseconds > (select avg(milliseconds) from track) order by milliseco...	168 row(s) returned	0.000 sec / 0.000 sec
✓ 17	20:34:00	use music_store	0 row(s) affected	0.000 sec
✓ 18	20:34:03	select employee_id, first_name, last_name, title, levels, hire_date from employee order by levels desc limit 1	1 row(s) returned	0.000 sec / 0.000 sec
✓ 19	20:34:35	select billing_country, count(*) as count_of_invoices from invoice group by billing_country order by count_of_in...	24 row(s) returned	0.000 sec / 0.000 sec

Object Info

Session

20°CPartly cloudy

Search

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26-01-202420:34

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Limit to 1000 rows

16 -- 3) What are top 3 values of total invoice?

17 • select * from invoice;

18 • select billing_country, sum(total) as total_invoice from invoice group by billing_country order by total_invoice desc limit 3;

19

20

21

22 -- 4) Which city has the best customers? We would like to throw a promotional Music Festival in the city we made the most money.

23 -- Write a query that returns one city that has the highest sum of invoice totals. Return both the city name & sum of all invoice totals.

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Fetch rows:

	billing_country	total_invoice
▶	USA	1040.4899999999998
	Canada	535.59000000000001
	Brazil	427.68000000000006

Result 18

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 14	20:28:09	select artist.artist_id, artist.name, count(artist.artist_id) as number_of_songs from track join album2 on album2.al...	8 row(s) returned	0.000 sec / 0.000 sec
✓ 15	20:28:09	select * from track LIMIT 0, 1000	362 row(s) returned	0.000 sec / 0.000 sec
✓ 16	20:28:09	select name, milliseconds from track where milliseconds > (select avg(milliseconds) from track) order by milliseco...	168 row(s) returned	0.000 sec / 0.000 sec
✓ 17	20:34:00	use music_store	0 row(s) affected	0.000 sec
✓ 18	20:34:03	select employee_id, first_name, last_name, title, levels, hire_date from employee order by levels desc limit 1	1 row(s) returned	0.000 sec / 0.000 sec
✓ 19	20:34:35	select billing_country, count(*) as count_of_invoices from invoice group by billing_country order by count_of_in...	24 row(s) returned	0.000 sec / 0.000 sec
✓ 20	20:35:02	select billing_country, sum(total) as total_invoice from invoice group by billing_country order by total_invoice de...	3 row(s) returned	0.000 sec / 0.000 sec

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Limit to 1000 rows

22 -- 4) Which city has the best customers? We would like to throw a promotional Music Festival in the city we made the most money.

23 -- Write a query that returns one city that has the highest sum of invoice totals. Return both the city name & sum of all invoice totals.

24 • select * from invoice;

25 • select billing_city, sum(total) as invoice_total from invoice group by billing_city order by invoice_total desc limit 1;

26

27

28

29 -- 5) Who is the best customer? The customer who has spent the most money will be declared the best customer.

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

	billing_city	invoice_total
▶	Prague	273.24000000000007

Result 19 Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 15	20:28:09	select * from track LIMIT 0, 1000	362 row(s) returned	0.000 sec / 0.000 sec
✓ 16	20:28:09	select name, milliseconds from track where milliseconds > (select avg(milliseconds) from track) order by milliseco...	168 row(s) returned	0.000 sec / 0.000 sec
✓ 17	20:34:00	use music_store	0 row(s) affected	0.000 sec
✓ 18	20:34:03	select employee_id, first_name, last_name, title, levels, hire_date from employee order by levels desc limit 1	1 row(s) returned	0.000 sec / 0.000 sec
✓ 19	20:34:35	select billing_country, count(*) as count_of_invoices from invoice group by billing_country order by count_of_in...	24 row(s) returned	0.000 sec / 0.000 sec
✓ 20	20:35:02	select billing_country, sum(total) as total_invoice from invoice group by billing_country order by total_invoice de...	3 row(s) returned	0.000 sec / 0.000 sec
✓ 21	20:35:16	select billing_city, sum(total) as invoice_total from invoice group by billing_city order by invoice_total desc limit 1	1 row(s) returned	0.000 sec / 0.000 sec

Watchlist Ideas

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Limit to 1000 rows

29-- 5) Who is the best customer? The customer who has spent the most money will be declared the best customer.

30-- Write a query that returns the person who has spent the most money.

31•select * from customer;

32•select * from invoice;

33•select customer.customer_id, customer.first_name, customer.last_name, sum(invoice.total) as total from customer join invoice

34ON customer.customer_id = invoice.customer_id

35group by customer.customer_id, customer.last_name, customer.first_name

36order by total desc limit 1;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Fetch rows:

	customer_id	first_name	last_name	total
▶	5	František	Wichterlová	144.54000000000002

AdministrationSchemas

Information

No object selected

Result 20

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 16	20:28:09	select name, milliseconds from track where milliseconds > (select avg(milliseconds) from track) order by millise...	168 row(s) returned	0.000 sec / 0.000 sec
✓ 17	20:34:00	use music_store	0 row(s) affected	0.000 sec
✓ 18	20:34:03	select employee_id, first_name, last_name, title, levels, hire_date from employee order by levels desc limit 1	1 row(s) returned	0.000 sec / 0.000 sec
✓ 19	20:34:35	select billing_country, count(*) as count_of_invoices from invoice group by billing_country order by count_of_in...	24 row(s) returned	0.000 sec / 0.000 sec
✓ 20	20:35:02	select billing_country, sum(total) as total_invoice from invoice group by billing_country order by total_invoice de...	3 row(s) returned	0.000 sec / 0.000 sec
✓ 21	20:35:16	select billing_city, sum(total) as invoice_total from invoice group by billing_city order by invoice_total desc limit 1	1 row(s) returned	0.000 sec / 0.000 sec
✓ 22	20:35:55	select customer.customer_id, customer.first_name, customer.last_name, sum(invoice.total) as total from custom...	1 row(s) returned	0.000 sec / 0.000 sec

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Limit to 1000 rows

39 -- 6. Write a query to return the email, first name, last name & Genre of all Rock Music listeners.

40 -- Return your list ordered alphabetically by email starting with A.

41 • select DISTINCT email, first_name, last_name from customer

42 JOIN invoice

43 ON customer.customer_id = invoice.customer_id

44 JOIN invoice_line

45 ON invoice_line.invoice_id = invoice.invoice_id

46 WHERE track_id IN (select track_id from track JOIN genre ON genre.genre_id = track.genre_id WHERE genre.name like 'Rock') order by email;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	email	first_name	last_name
▶	aaronmitchell@yahoo.ca	Aaron	Mitchell
	alero@uol.com.br	Alexandre	Rocha
	astrid.gruber@apple.at	Astrid	Gruber
	bjorn.hansen@yahoo.no	Björn	Hansen
	camille.bernard@yahoo.fr	Camille	Bernard
	daan_peeters@apple.be	Daan	Peeters
	diego.gutierrez@yahoo.ar	Diego	Gutiérrez
	dmiller@comcast.com	Dan	Miller
	dominiquelefebvre@gmail.com	Dominique	Lefebvre

Result 21

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 17	20:34:00	use music_store	0 row(s) affected	0.000 sec
✓ 18	20:34:03	select employee_id, first_name, last_name, title, levels, hire_date from employee order by levels desc limit 1	1 row(s) returned	0.000 sec / 0.000 sec
✓ 19	20:34:35	select billing_country, count(*) as count_of_invoices from invoice group by billing_country order by count_of_in...	24 row(s) returned	0.000 sec / 0.000 sec
✓ 20	20:35:02	select billing_country, sum(total) as total_invoice from invoice group by billing_country order by total_invoice de...	3 row(s) returned	0.000 sec / 0.000 sec
✓ 21	20:35:16	select billing_city, sum(total) as invoice_total from invoice group by billing_city order by invoice_total desc limit 1	1 row(s) returned	0.000 sec / 0.000 sec
✓ 22	20:35:55	select customer.customer_id, customer.first_name, customer.last_name, sum(invoice.total) as total from custom...	1 row(s) returned	0.000 sec / 0.000 sec
✓ 23	20:36:33	select DISTINCT email, first_name, last_name from customer JOIN invoice ON customer.customer_id = invoic...	58 row(s) returned	0.140 sec / 0.000 sec

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Limit to 1000 rows

50 -- 7. Let's invite the artists who have written the most rock music in our dataset.

51 -- Write a query that returns the Artist name and total track count of the top 10 rock bands.

52 • select artist.artist_id, artist.name, count(artist.artist_id) as number_of_songs

53 from track

54 join album2 on album2.album_id = track.album_id

55 JOIN artist on artist.artist_id = album2.artist_id

56 join genre on genre.genre_id = track.genre_id

57 where genre.name like 'Rock' group by artist.artist_id, artist.name order by number_of_songs desc limit 10;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	artist_id	name	number_of_songs
▶	1	AC/DC	18
	3	Aerosmith	15
	8	Audioslave	14
	22	Led Zeppelin	14
	4	Alanis Morissette	13
	5	Alice In Chains	12
	23	Frank Zappa & Captain Beefheart	9
	2	Accept	4

Result 22

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 18	20:34:03	select employee_id, first_name, last_name, title, levels, hire_date from employee order by levels desc limit 1	1 row(s) returned	0.000 sec / 0.000 sec
✓ 19	20:34:35	select billing_country, count(*) as count_of_invoices from invoice group by billing_country order by count_of_in...	24 row(s) returned	0.000 sec / 0.000 sec
✓ 20	20:35:02	select billing_country, sum(total) as total_invoice from invoice group by billing_country order by total_invoice de...	3 row(s) returned	0.000 sec / 0.000 sec
✓ 21	20:35:16	select billing_city, sum(total) as invoice_total from invoice group by billing_city order by invoice_total desc limit 1	1 row(s) returned	0.000 sec / 0.000 sec
✓ 22	20:35:55	select customer.customer_id, customer.first_name, customer.last_name, sum(invoice.total) as total from custom...	1 row(s) returned	0.000 sec / 0.000 sec
✓ 23	20:36:33	select DISTINCT email, first_name, last_name from customer JOIN invoice ON customer.customer_id = invoic...	58 row(s) returned	0.140 sec / 0.000 sec
✓ 24	20:37:40	select artist.artist_id, artist.name, count(artist.artist_id) as number_of_songs from track join album2 on album2.al...	8 row(s) returned	0.000 sec / 0.000 sec

20°C Partly cloudy

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