

MySQL Workbench

Local instance MySQL82 (mu... x

FileEditViewQueryDatabaseServerToolsScriptingHelp

Navigator

SCHEMAS

Filter objects

music_database

Tables

album2

artist

customer

employee

genre

invoice

invoice_line

media_type

playlist

playlist_track

track

Views

Stored Procedures

Functions

Query 1

mit5

Limit to 1000 rows

1 • USE music_database;

2 • SELECT * FROM employee;

3

4 /* Q1: Who is the senior most employee based on job title? */

5 • SELECT * FROM employee

6 ORDER BY levels DESC

7 LIMIT 1;

8

9

10

11

12

13

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Fetch rows:

	employee_id	last_name	first_name	title	reports_to	levels	birthdate	hire_date	address	city	state	country	postal_code	phone	fax	email
▶	1	Adams	Andrew	General Manager	9	L6	18-02-1962 00:00	14-08-2016 00:00	11120 Jasper Ave NW	Edmonton	AB	Canada	TSK 2N1	+1 (780) 428-9482	+1 (780) 428-3457	andrew@chinoo

Administration Schemas

Information

No object selected

Object Info Session

employee 4 x

Read Only

Query Completed

USD/CNY +0.27%

Search

09:43 28-07-2024

MySQL Workbench

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File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

music_database

- Tables
 - album2
 - artist
 - customer
 - employee
 - genre
 - invoice
 - invoice_line
 - media_type
 - playlist
 - playlist_track
 - track
- Views
- Stored Procedures
- Functions

Query 1

```
25 • USE music_database;
26 • SELECT * FROM invoice;
27
28 /* Q2: Which countries have the most Invoices? */
29 •     SELECT COUNT(*) AS C, billing_country
30       FROM invoice
31       GROUP BY billing_country
32       ORDER BY C DESC;
33
```

Result Grid

	C	billing_country
▶	131	USA
	76	Canada
	61	Brazil
	50	France
	41	Germany
	30	Czech Republic
	29	Portugal
	28	United Kingdom
	21	India
	13	Ireland
	13	Chile
	11	Finland
	11	Spain
	10	Poland
	10	Denmark
	10	Australia
	10	Hungary
	10	Sweden
	10	Netherlands
	9	Norway
	9	Italy
	9	Austria
	7	Belgium
	7	...

Object Info Session Result 9 x

Query Completed

Temps to rise

ENG

12:20

MySQL Workbench

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File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

music_database

- Tables
 - album2
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 - playlist_track
 - track
- Views
- Stored Procedures
- Functions

Query 1

mit5*

Limit to 1000 rows

33

34 /* Q3: What are top 3 values of total invoice? */

35 • SELECT total

36 FROM invoice

37 ORDER BY total DESC

38 limit 3;

39

40

41

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Fetch rows:

total
23.759999999999998
19.8
19.8

Administration

Schemas

Information

No object selected

Object Info

Session

invoice 12 x

Read Only

Query Completed

85°F Cloudy

Search

ENG IN

13:07

28-07-2024

MySQL Workbench

Local instance MySQL82 (mu... x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

music_database

Tables

- album2
- artist
- customer
- employee
- genre
- invoice
- invoice_line
- media_type
- playlist
- playlist_track
- track

Views

Stored Procedures

Functions

Query 1

Limit to 1000 rows

```
40
41
42 /* Q4: Which city has the best customers?
43 We would like to throw a promotional Music Festival in the city we made the most money.
44 Write a query that returns one city that has the highest sum of invoice totals.
45 Return both the city name & sum of all invoice totals */
46
47 • SELECT billing_city, SUM(total)
48 FROM invoice
49 GROUP BY billing_city
50 ORDER BY SUM(total) desc
51 LIMIT 1;
52
53
54
55
```

Result Grid

billing_city	sum(total)
Prague	273.24000000000007

Object Info

Session

Result 15 x

Read Only

Query Completed

86°F Cloudy

Search

ENG IN

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MySQL Workbench

Local instance MySQL82 (mu... x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

music_database

Tables

- album2
- artist
- customer

Columns

- customer_id
- first_name
- last_name
- company
- address
- city
- state
- country
- postal_code
- phone
- fax
- email
- support_rep

Indexes

Foreign Keys

Triggers

employee

genre

invoice

invoice_line

media_type

playlist

Administration Schemas

Information

Table: customer

Columns:

customer_id	int
first_name	text
last_name	text
company	text
address	text
city	text
state	text
country	text

Object Info Session

Query 1 mit5*

Limit to 1000 rows

```
53
54
55 /* Q5: Who is the best customer? The customer who has spent the most money will be declared the best customer.
56 Write a query that returns the person who has spent the most money.*/
57
58 • SELECT customer.customer_id, customer.first_name, customer.last_name, SUM(total)
59 FROM customer
60 JOIN invoice ON customer.customer_id = invoice.customer_id
61 GROUP BY customer.customer_id, customer.first_name, customer.last_name
62 ORDER BY sum(total) DESC
63 LIMIT 1;
```

Result Grid

customer_id	first_name	last_name	SUM(total)
5	František	Wichterlová	144.54000000000002

Result 26 x

Read Only

Query Completed

MySQL Workbench

Local instance MySQL82 (mu...)

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

music_database

- album2
- artist
- customer
- employee
- genre
 - Columns
 - genre_id
 - name
 - Indexes
 - Foreign Keys
 - Triggers
- invoice
 - Columns
 - invoice_id
 - customer_id
 - invoice_date
 - billing_address
 - billing_city
 - billing_state
 - billing_country
 - billing_postal_c
 - total
 - Indexes
 - Foreign Keys
 - Triggers
- invoice_line

Query 1

```
/* Question Set 2 - Moderate */
/* Q1: Write query to return the email, first name, last name, & Genre of all Rock Music listeners.
Return your list ordered alphabetically by email starting with A. */
/*Method 1 */
SELECT DISTINCT email,first_name, last_name
FROM customer
JOIN invoice ON customer.customer_id = invoice.customer_id
JOIN invoice_line ON invoice.invoice_id = invoice_line.invoice_id
WHERE track_id IN(
SELECT track_id FROM track
JOIN genre ON track.genre_id = genre.genre_id
WHERE genre.name LIKE 'Rock')
ORDER BY email;
/* Method 2 */
SELECT DISTINCT email AS Email,first_name AS FirstName, last_name AS LastName, genre.name AS Name
FROM customer
JOIN invoice ON invoice.customer_id = customer.customer_id
JOIN invoice_line ON invoice_line.invoice_id = invoice.invoice_id
JOIN track ON track.track_id = invoice_line.track_id
JOIN genre ON genre.genre_id = track.genre_id
WHERE genre.name LIKE 'Rock'
ORDER BY email;
```

Result Grid

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
edfrancis@yahoo.ca	Edward	Francis
eduardo@woodstock.com.br	Eduardo	Martins

Table: genre

Columns:

- genre_id int
- name text

Object Info Session

Query Completed

MySQL Workbench

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File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- artist_id
- Indexes
- Foreign Keys
- Triggers
- artist
 - Columns
 - artist_id
 - name
 - Indexes
 - Foreign Keys
 - Triggers
- customer
- employee
- genre
- invoice
- invoice_line
- media_type
- playlist
 - Columns
 - playlist_id
 - name
 - Indexes
 - Foreign Keys
 - Triggers
- playlist_track
 - Columns
 - playlist_id
 - track_id
 - Indexes

Administration Schemas

Information

Table: album2

Columns:

- album_id int
- title text
- artist_id int

Object Info Session

Query 1

Limit to 1000 rows

```
88
89 /* Q2: Let's invite the artists who have written the most rock music in our dataset.
90 Write a query that returns the Artist name and total track count of the top 10 rock bands. */
91
92 • SELECT artist.artist_id, artist.name, COUNT(artist.artist_id) AS number_of_songs
93 FROM track
94 JOIN album2 ON album2.album_id = track.album_id
95 JOIN artist ON artist.artist_id = album2.artist_id
96 JOIN genre ON genre.genre_id = track.genre_id
97 WHERE genre.name LIKE 'Rock'
98 GROUP BY artist.artist_id, artist.name
99 ORDER BY number_of_songs DESC
100 LIMIT 5;
101
102
```

Result Grid

	artist_id	name	number_of_songs
▶	1	AC/DC	18
	3	Aerosmith	15
	8	Audioslave	14
	22	Led Zeppelin	14
	4	Alanis Morissette	13

Result 39 x

Read Only

Query Completed

83°F Cloudy

Search

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MySQL Workbench

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Navigator

SCHEMAS

Filter objects

- artist_id
- Indexes
- Foreign Keys
- Triggers
- artist
 - Columns
 - artist_id
 - name
 - Indexes
 - Foreign Keys
 - Triggers
- customer
- employee
- genre
- invoice
- invoice_line
- media_type
- playlist
 - Columns
 - playlist_id
 - name
 - Indexes
 - Foreign Keys
 - Triggers
- playlist_track
 - Columns
 - playlist_id
 - track_id
 - Indexes

Administration Schemas

Information

Table: album2

Columns:

- album_id int
- title text
- artist_id int

Query 1

Limit to 1000 rows

```
102
103 /* Q3: Return all the track names that have a song length longer than the average song length.
104 Return the Name and Milliseconds for each track. Order by the song length with the longest songs listed first. */
105
106 • SELECT name,milliseconds
107 FROM track
108 WHERE milliseconds > (
109     SELECT AVG(milliseconds) AS avg_track_length
110     FROM track )
111 ORDER BY milliseconds DESC;
112
113 • SELECT * FROM TRACK;
114
115
116
```

Result Grid

name	milliseconds
How Many More Times	711836
Advance Romance	677694
Sleeping Village	644571
You Shook Me(2)	619467
Talkin' Bout Women Obviously	589531
Stratus	582086
No More Tears	555075
The Alchemist	509413
Wheels Of Confusion / The Straightener	494524
Book Of Thel	494393
You Oughta Know (Alternate)	491885
Terra	482429
Snoopy's search-Red baron	456071
Sozinho (Hitmakers Classic Mix)	436636
Master Of Puppets	436453
Stone Crazy	433397
Snowblind	420022
Computadores Fazem Arte	404323
Jerusalem	402390

Object Info Session track 43 x

Read Only

Query Completed