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Subject - SQL

Project Name - Air Cargo Analysis

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

SQl SQL+ Tables Databases SQL File 3* ×

Navigator: air_cargo_data - Schema

SCHEMAS air_cargo_data

Tables customer passengers_on_flights routes ticket_details Views Stored Procedures Functions sys

1 • CREATE TABLE route_details (route_id INT PRIMARY KEY, flight_num VARCHAR(10) CHECK (flight_num LIKE 'F%[0-9][0-9][0-9]'), origin_airport VARCHAR(50), destination_airport VARCHAR(50), aircraft_id INT, distance_miles DECIMAL(10, 2) CHECK (distance_miles > 0), UNIQUE (route_id));

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

Administration Schemas

Information

Schema: air_cargo_data

Output

Action Output

#	Time	Action	Message	Duration / Fetch
51	09:59:36	DEALLOCATE PREPARE stmt	OK	0.000 sec
52	12:21:58	CREATE TABLE route_details (route_id INT PRIMARY KEY, flight_num VARCHAR(10) CHECK (flight_num ...)	0 row(s) affected	0.032 sec
53	12:23:57	CREATE TABLE route_details (route_id INT PRIMARY KEY, flight_num VARCHAR(10) CHECK (flight_num ...)	Error Code: 1050. Table 'route_details' already exists	0.000 sec

Object Info Session

33°C Mostly cloudy

12:24 26-09-2023 ENG IN

The screenshot shows the MySQL Workbench interface. The top navigation bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The left sidebar displays the Navigator (Schemas, Tables, Views, Stored Procedures, Functions) and sys. The main area shows a SQL editor with the following code:

```
4     origin_airport VARCHAR(50),
5     destination_airport VARCHAR(50),
6     aircraft_id INT,
7     distance_miles DECIMAL(10, 2) CHECK (distance_miles > 0),
8     UNIQUE (route_id)
9 );
10
11
12 • SELECT DISTINCT p.customer_id, c.first_name, c.last_name
13   FROM passengers_on_flights p
14   JOIN Customer c ON p.customer_id = c.customer_id
15 WHERE p.route_id BETWEEN 1 AND 25;
```

The results grid shows the following data:

	customer_id	first_name	last_name
1	1	Julie	Sam
2	2	Steve	Ryan
4	4	Cathenna	Emily
5	5	Aaron	Kim
7	7	Anderson	Stewart
9	9	Leo	Travis
10	10	Melvin	Tracy
11	11	Roger	Walson
13	13	Solomon	Walter
15	15	Linda	William

The bottom section shows the Action Output history:

#	Time	Action	Message	Duration / Fetch
52	12:21:58	CREATE TABLE route_details (route_id INT PRIMARY KEY, flight_num VARCHAR(10) CHECK (flight_n...)	0 row(s) affected	0.032 sec
53	12:23:57	CREATE TABLE route_details (route_id INT PRIMARY KEY, flight_num VARCHAR(10) CHECK (flight_n...)	Error Code: 1050. Table 'route_details' already exists	0.000 sec
54	12:25:59	SELECT DISTINCT p.customer_id, c.first_name, c.last_name FROM passengers_on_flights p JOIN Customer ...	21 row(s) returned	0.000 sec / 0.000 sec

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

SQl SQL+ Tables Databases SQL File 3* ×

Navigator: air_cargo_data - Schema

SCHEMAS air_cargo_data

Tables customer, passengers_on_flights, routes, ticket_details

Views

Stored Procedures

Functions

sys

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

```
11
12 • SELECT DISTINCT p.customer_id, c.first_name, c.last_name
13   FROM passengers_on_flights p
14   JOIN Customer c ON p.customer_id = c.customer_id
15   WHERE p.route_id BETWEEN 1 AND 25;
16
17
18 • SELECT
19     SUM(no_of_tickets) AS total_passengers,
20     SUM(price_per_ticket * no_of_tickets) AS total_revenue
21   FROM ticket_details
22   WHERE class_id = 'Business';
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Result Grid | Form Editor | Field Types

	total_passengers	total_revenue
▶	HULL	HULL

Administration Schemas

Information

Schema: air_cargo_data

Result 2 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✖	53	12:23:57 CREATE TABLE route_details (route_id INT PRIMARY KEY, flight_num VARCHAR(10) CHECK (flight_n...)	Error Code: 1050. Table 'route_details' already exists	0.000 sec
✓	54	12:25:59 SELECT DISTINCT p.customer_id, c.first_name, c.last_name FROM passengers_on_flights p JOIN Customer ...	21 row(s) returned	0.000 sec / 0.000 sec
✓	55	12:27:35 SELECT SUM(no_of_tickets) AS total_passengers, SUM(price_per_ticket * no_of_tickets) AS total_reve...	1 row(s) returned	0.016 sec / 0.000 sec

Object Info Session

1 Breaking news Get caught up

17

12:27 26-09-2023

The screenshot shows the MySQL Workbench interface. The top navigation bar includes 'File', 'Edit', 'View', 'Query', 'Database', 'Server', 'Tools', 'Scripting', and 'Help'. The main area features a 'Navigator' pane on the left with 'SCHEMAS' and 'Tables' sections for the 'air_cargo_data' schema, and a 'sys' section. A central 'SQL File 3*' tab contains the following SQL code:

```
11
12 •  SELECT DISTINCT p.customer_id, c.first_name, c.last_name
13   FROM passengers_on_flights p
14   JOIN Customer c ON p.customer_id = c.customer_id
15   WHERE p.route_id BETWEEN 1 AND 25;
16
17
18 •  SELECT
19     SUM(no_of_tickets) AS total_passengers,
20     SUM(price_per_ticket * no_of_tickets) AS total_revenue
21   FROM ticket_details
22   WHERE class_id = 'Business';
```

The results grid below shows the output for the second query:

	total_passenger	total_revenue
▶	NULL	NULL

A context help message on the right states: "Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help." The bottom right corner displays the system tray with the date and time.

The screenshot shows the MySQL Workbench interface with the following details:

- Top Bar:** MySQL Workbench, Local instance MySQL80.
- Menu Bar:** File, Edit, View, Query, Database, Server, Tools, Scripting, Help.
- Toolbar:** Includes icons for New, Open, Save, Print, Copy, Paste, Find, Replace, and others.
- Navigator:** Schemas, air_cargo_data (selected), Tables (customer, passengers_on_flights, routes, ticket_details), Views, Stored Procedures, Functions, sys.
- SQL Editor:** air_cargo_data - Schema, SQL File 3*, contains the following code:

```
14     JOIN Customer c ON p.customer_id = c.customer_id
15     WHERE p.route_id BETWEEN 1 AND 25;
16
17
18 •   SELECT
19     SUM(no_of_tickets) AS total_passengers,
20     SUM(price_per_ticket * no_of_tickets) AS total_revenue
21   FROM ticket_details
22   WHERE class_id = 'Business';
23
24
25 •   SELECT CONCAT(first_name, ' ', last_name) AS full_name
```
- Result Grid:** Shows the output of the last query (Line 25). The column is labeled "full_name" and the data includes: Julie Sam, Steve Ryan, Morris Lois, Cathenna Emily, Aaron Kim, Alexander Scot, Anderson Stewart, Floyd Ted, Leo Travis, Melvin Tracy.
- Output Panel:** Action Output table showing the execution of three queries. The first two are SELECT statements from the ticket_details table, and the third is a SELECT statement from the Customer table. All queries returned 1 row(s) or 50 row(s) and took 0.016 sec / 0.000 sec or 0.000 sec / 0.000 sec.
- System Tray:** Shows the date and time as 26-09-2023 12:51, and the weather as 32°C Mostly cloudy.
- Bottom Bar:** Taskbar with various application icons.

The screenshot shows the MySQL Workbench application window. The title bar reads "MySQL Workbench" and "Local instance MySQL80 x". The menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The toolbar contains various icons for database management tasks.

The Navigator pane on the left shows the "air_cargo_data" schema, which contains tables like "customer", "passengers_on_flights", "routes", "ticket_details", and views/procedures/functions. The "sys" schema is also listed.

The main workspace has two tabs: "air_cargo_data - Schema" and "SQL File 3*". The "SQL File 3*" tab contains the following SQL code:

```
20     SUM(price_per_ticket * no_of_tickets) AS total_revenue
21   FROM ticket_details
22   WHERE class_id = 'Business';
23
24
25 •  SELECT CONCAT(first_name, ' ', last_name) AS full_name
26   FROM Customer;
27
28
29 •  SELECT c.customer_id, c.first_name, c.last_name
30   FROM Customer c
31   INNER JOIN ticket_details t ON c.customer_id = t.customer_id;
```

The results of the second query are displayed in a "Result Grid":

	customer_id	first_name	last_name
▶	27	Cherly	Vernon
	22	Pheny	Eri
	21	Christy	Josh
	4	Cathenna	Emily
	5	Aaron	Kim
	7	Anderson	Stewart
	8	Floyd	Ted
	9	Leo	Travis
	10	Melvin	Tracy
	11	Roger	Walson

The message log at the bottom shows the execution history:

#	Time	Action	Message	Duration / Fetch
56	12:50:10	SELECT SUM(no_of_tickets) AS total_passengers, SUM(price_per_ticket * no_of_tickets) AS total_revenue	1 row(s) returned	0.000 sec / 0.000 sec
57	12:51:33	SELECT CONCAT(first_name, ' ', last_name) AS full_name FROM Customer LIMIT 0, 1000	50 row(s) returned	0.000 sec / 0.000 sec
58	12:53:05	SELECT c.customer_id, c.first_name, c.last_name FROM Customer c INNER JOIN ticket_details t ON c.customer_id = t.customer_id	50 row(s) returned	0.000 sec / 0.000 sec

The system tray at the bottom indicates it's 12:53, the weather is 32°C mostly cloudy, and the date is 26-09-2023.

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

SQl SQL+ Tables Databases SQL File 3* ×

Navigator: air_cargo_data - Schema SQL Additions

SCHEMAS air_cargo_data

Tables customer passengers_on_flights routes ticket_details Views Stored Procedures Functions

sys

26 FROM Customer;

27

28

29 • SELECT c.customer_id, c.first_name, c.last_name

30 FROM Customer c

31 INNER JOIN ticket_details t ON c.customer_id = t.customer_id;

32

33

34 • SELECT c.first_name, c.last_name

35 FROM Customer c

36 INNER JOIN ticket_details t ON c.customer_id = t.customer_id

37 WHERE t.brand = 'Emirates';

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor Field Types

first_name	last_name
Steve	Ryan
Cathenna	Emily
Cathenna	Emily
Aaron	Kim
Anderson	Stewart
Leo	Travis
Roger	Walson
Roger	Walson
Carol	Vernon
Gloria	Richie

Result 6 × Read Only Context Help Snippets

Output Action Output

#	Time	Action	Message	Duration / Fetch
57	12:51:33	SELECT CONCAT(first_name, ' ', last_name) AS full_name FROM Customer LIMIT 0, 1000	50 row(s) returned	0.000 sec / 0.000 sec
58	12:53:05	SELECT c.customer_id, c.first_name, c.last_name FROM Customer c INNER JOIN ticket_details t ON c.customer_id = t.customer_id;	50 row(s) returned	0.000 sec / 0.000 sec
59	12:54:42	SELECT c.first_name, c.last_name FROM Customer c INNER JOIN ticket_details t ON c.customer_id = t.customer_id	18 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

1 32°C Mostly cloudy ENG IN 12:54 26-09-2023

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

The screenshot shows the MySQL Workbench interface. The top menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The left sidebar features a Navigator with Schemas, Tables, Views, Stored Procedures, Functions, and sys. The main area displays two SQL tabs: 'air_cargo_data - Schema' and 'SQL File 3*'. The 'SQL File 3*' tab contains the following query:

```
34 • SELECT c.first_name, c.last_name
35   FROM Customer c
36   INNER JOIN ticket_details t ON c.customer_id = t.customer_id
37   WHERE t.brand = 'Emirates';
38
39
40 • SELECT c.customer_id, c.first_name, c.last_name
41   FROM passengers_on_flights p
42   JOIN Customer c ON p.customer_id = c.customer_id
43   WHERE p.class_id = 'Economy Plus'
44   GROUP BY c.customer_id, c.first_name, c.last_name
45   HAVING COUNT(*) > 0;
```

The results of the second query are shown in a 'Result Grid' table:

	customer_id	first_name	last_name
▶	1	Julie	Sam
	8	Floyd	Ted
	11	Roger	Walson
	17	Catherine	Shad
	19	Joyce	Paul
	22	Pheny	Eri
	32	Chirstoper	Sean
	47	Sophia	Carl
	50	Rose	Arthur

The bottom section shows the 'Action Output' log:

#	Time	Action	Message	Duration / Fetch
58	12:53:05	SELECT c.customer_id, c.first_name, c.last_name FROM Customer c INNER JOIN ticket_details t ON c.custo...	50 row(s) returned	0.000 sec / 0.000 sec
59	12:54:42	SELECT c.first_name, c.last_name FROM Customer c INNER JOIN ticket_details t ON c.customer_id = t.custo...	18 row(s) returned	0.000 sec / 0.000 sec
60	12:56:12	SELECT c.customer_id, c.first_name, c.last_name FROM passengers_on_flights p JOIN Customer c ON p.cust...	9 row(s) returned	0.000 sec / 0.000 sec

The system tray at the bottom indicates it's 12:56, 26-09-2023, with a weather icon showing 32°C and mostly cloudy.

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

SOL SQL DDL DML Scripts Tables Views Stored Procedures Functions sys

Navigator: air_cargo_data - Schema SQL File 3* ×

SCHEMAS air_cargo_data Tables customer passengers_on_flights routes ticket_details Views Stored Procedures Functions sys

Filter objects

42 JOIN Customer c ON p.customer_id = c.customer_id
43 WHERE p.class_id = 'Economy Plus'
44 GROUP BY c.customer_id, c.first_name, c.last_name
45 HAVING COUNT(*) > 0;
46
47
48 • SELECT
CASE
50 WHEN SUM(price_per_ticket * no_of_tickets) > 10000 THEN 'Revenue Crossed 10000'
51 ELSE 'Revenue Not Crossed 10000'
52 END AS revenue_status
53 FROM ticket_details;

Result Grid Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor Field Types

revenue_status
Revenue Crossed 10000

Administration Schemas

Information

Schema: air_cargo_data

Result 8 × Output

Action Output

#	Time	Action	Message	Duration / Fetch
59	12:54:42	SELECT c.first_name, c.last_name FROM Customer c INNER JOIN ticket_details t ON c.customer_id = t.custo...	18 row(s) returned	0.000 sec / 0.000 sec
60	12:56:12	SELECT c.customer_id, c.first_name, c.last_name FROM passengers_on_flights p JOIN Customer c ON p.cust...	9 row(s) returned	0.000 sec / 0.000 sec
61	13:02:24	SELECT CASE WHEN SUM(price_per_ticket * no_of_tickets) > 10000 THEN 'Revenue Crossed 1000...' 1 row(s) returned		0.000 sec / 0.000 sec

Object Info Session

1 Breaking news Get caught up

ENG IN 13:02 26-09-2023

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 Form Editor Field Types

Read Only Context Help Snippets

Windows Taskbar: Home, Search, File Explorer, Edge, Mail, WhatsApp, Facebook, Chrome, Microsoft Edge, Task View, Task Manager, Taskbar Icons, Volume, Battery, Network, Language, Date/Time

The screenshot shows the MySQL Workbench interface. The top menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The left sidebar features a Navigator with SCHEMAS, an air_cargo_data schema containing Tables (customer, passengers_on_flights, routes, ticket_details), Views, Stored Procedures, Functions, and a sys folder. Below the Navigator are tabs for Administration and Schemas, with Schemas selected. The main area contains a SQL Editor titled 'air_cargo_data - Schema' with the following SQL code:

```
41     FROM passengers_on_flights p
42     JOIN Customer c ON p.customer_id = c.customer_id
43     WHERE p.class_id = 'Economy Plus'
44     GROUP BY c.customer_id, c.first_name, c.last_name
45     HAVING COUNT(*) > 0;
46
47
48 •   SELECT
49     CASE
50         WHEN SUM(price_per_ticket * no_of_tickets) > 10000 THEN 'Revenue Crossed 10000'
51         ELSE 'Revenue Not Crossed 10000'
52     END AS revenue_status
53     FROM ticket_details;
54
55
56 •   CREATE USER 'new_user'@'localhost' IDENTIFIED BY 'password';
57
58 •   GRANT ALL PRIVILEGES ON `your_database`.* TO 'new_user'@'localhost';
59
60 •   FLUSH PRIVILEGES;
61
62
63
```

The right side of the interface includes a SQLAdditions panel with a note about context help and a Context Help/Snippets tab. The bottom of the screen shows the Windows taskbar with various pinned icons and the system tray.

The screenshot shows the MySQL Workbench interface with the following details:

- Top Bar:** MySQL Workbench, Local instance MySQL80.
- Menu Bar:** File, Edit, View, Query, Database, Server, Tools, Scripting, Help.
- Toolbar:** Includes icons for New, Open, Save, Print, Copy, Paste, Find, Replace, and various selection tools.
- Navigator:** Schemas (air_cargo_data selected), Tables (customer, passengers_on_flights, routes, ticket_details), Views, Stored Procedures, Functions, sys.
- SQL Editor:** air_cargo_data - Schema, SQL File 3*. x. The code is:

```
55
56 • CREATE USER 'new_user'@'localhost' IDENTIFIED BY 'password';
57
58 • GRANT ALL PRIVILEGES ON `your_database`.* TO 'new_user'@'localhost';
59
60 • FLUSH PRIVILEGES;
61
62
63 • SELECT
64     class_id,
65     MAX(price_per_ticket) OVER (PARTITION BY class_id) AS max_ticket_price
66 FROM ticket_details;
```
- Result Grid:** Shows the output of the last query:

class_id	max_ticket_price
Business	510
- Action Output:** Shows the log of actions taken:

#	Time	Action	Message	Duration / Fetch
63	13:05:36	GRANT ALL PRIVILEGES ON `your_database`.* TO 'new_user'@'localhost'	0 row(s) affected	0.015 sec
64	13:05:59	FLUSH PRIVILEGES	0 row(s) affected	0.000 sec
65	13:08:26	SELECT class_id, MAX(price_per_ticket) OVER (PARTITION BY class_id) AS max_ticket_price FROM ti...	50 row(s) returned	0.015 sec / 0.000 sec
- Status Bar:** SENSEX Market brief, ENG IN, 13:08, 26-09-2023.

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

SQl SQL i + 100 SQL File 3* ×

Navigator: air_cargo_data - Schema

SCHEMAS air_cargo_data

Tables customer passengers_on_flights routes ticket_details

Views Stored Procedures Functions

sys

62 • SELECT class_id,
63 MAX(price_per_ticket) OVER (PARTITION BY class_id) AS max_ticket_price
64 FROM ticket_details;
65
66
67
68
69 • CREATE INDEX idx_route_id ON passengers_on_flights(route_id);
70
71 • SELECT *
72 FROM passengers_on_flights
73 WHERE route_id = 4;

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

	customer_id	aircraft_id	route_id	depart	arrival	seat_num	class_id	travel_date	flight_num
▶	2	767-301ER	4	JFK	LAX	01E	Economy	02-09-2018	1114
	4	767-301ER	4	JFK	LAX	03FC	First Class	30-04-2020	1114
	11	767-301ER	4	JFK	LAX	05B	Bussiness	09-11-2020	1114

Administration Schemas

Information

Schema: air_cargo_data

passenger_on_flights 10 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓	65 13:08:26	SELECT class_id, MAX(price_per_ticket) OVER (PARTITION BY class_id) AS max_ticket_price FROM ti...	50 row(s) returned	0.015 sec / 0.000 sec
✓	66 13:10:42	CREATE INDEX idx_route_id ON passengers_on_flights(route_id)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.078 sec
✓	67 13:11:15	SELECT * FROM passengers_on_flights WHERE route_id = 4 LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

1 32°C Mostly cloudy

ENG IN

13:11 26-09-2023

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

The screenshot shows the MySQL Workbench interface. In the top-left, the title bar says "MySQL Workbench" and "Local instance MySQL80". The menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. Below the menu is a toolbar with various icons for database management. The left sidebar has a "Navigator" section with "SCHEMAS" and "air_cargo_data" selected. Under "air_cargo_data", there are "Tables" (customer, passengers_on_flights, routes, ticket_details), "Views", "Stored Procedures", and "Functions". A "sys" entry is also listed. The main workspace contains a "SQL File 3*" tab with the following SQL code:

```
67
68
69 • CREATE INDEX idx_route_id ON passengers_on_flights(route_id);
70
71 • SELECT *
72   FROM passengers_on_flights
73   WHERE route_id = 4;
74
75 • SELECT customer_id, depart, arrival
76   FROM passengers_on_flights
77   WHERE route_id = 4
78   LIMIT 1000;
```

The code at line 75 is currently selected. Below the code is a "Result Grid" tab showing the results of the query:

	customer_id	depart	arrival
▶	2	JFK	LAX
	4	JFK	LAX
	11	JFK	LAX

A vertical toolbar on the right side of the results grid provides options for "Result Grid", "Form Editor", and "Field Types". At the bottom, the "Object Info" tab is active, showing the log for the current session:

Action	Time	Message	Duration / Fetch
67	13:11:15	SELECT * FROM passengers_on_flights WHERE route_id = 4 LIMIT 0, 1000 3 row(s) returned	0.000 sec / 0.000 sec
68	13:11:46	SELECT passenger_id, customer_id, depart, arrival FROM passengers_on_flights WHERE route_id = 4 LIMIT ... Error Code: 1054. Unknown column 'passenger_id' in 'field list'	0.000 sec
69	13:13:38	SELECT customer_id, depart, arrival FROM passengers_on_flights WHERE route_id = 4 LIMIT 1000 3 row(s) returned	0.000 sec / 0.000 sec

At the very bottom, the system tray shows the date and time as "26-09-2023 13:14".

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

SQl SQL+ Tables Databases SQL File 3* ×

Navigator: air_cargo_data - Schema

SCHEMAS air_cargo_data

Tables: customer, passengers_on_flights, routes, ticket_details, Views, Stored Procedures, Functions

sys

72 FROM passengers_on_flights
73 WHERE route_id = 4;
74
75 • SELECT customer_id, depart, arrival
76 FROM passengers_on_flights
77 WHERE route_id = 4
78 LIMIT 1000;
79
80
81 • EXPLAIN SELECT *
82 FROM passengers_on_flights
83 WHERE route_id = 4;

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

	id	select_type	table	partitions	type	possible_keys	key	key_len	ref	rows	filtered	Extra
▶	1	SIMPLE	passengers_on_flights	NULL	ref	idx_route_id	idx_route_id	5	const	3	100.00	NULL

Administration Schemas

Information

Schema: air_cargo_data

Result 12 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✖	68 13:11:46	SELECT passenger_id, customer_id, depart, arrival FROM passengers_on_flights WHERE route_id = 4 LIMIT ...	Error Code: 1054. Unknown column 'passenger_id' in field list'	0.000 sec
✓	69 13:13:38	SELECT customer_id, depart, arrival FROM passengers_on_flights WHERE route_id = 4 LIMIT 1000	3 row(s) returned	0.000 sec / 0.000 sec
✓	70 13:16:10	EXPLAIN SELECT * FROM passengers_on_flights WHERE route_id = 4	1 row(s) returned	0.015 sec / 0.000 sec

Object Info Session

1 32°C Mostly cloudy

ENG IN

13:16 26-09-2023

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 ×

File Edit View Query Database Server Tools Scripting Help

Schemas

air_cargo_data - Schema SQL File 3*

Limit to 1000 rows

EXPLAIN SELECT *
FROM passengers_on_flights
WHERE route_id = 4;

EXPLAIN SELECT *
FROM passengers_on_flights
WHERE route_id = 4;

EXPLAIN SELECT *
FROM passengers_on_flights
WHERE route_id = 4;

Result Grid

	id	select_type	table	partitions	type	possible_keys	key	key_len	ref	rows	filtered	Extra
▶	1	SIMPLE	passengers_on_flights	NULL	ref	idx_route_id	idx_route_id	5	const	3	100.00	NULL

Administration Schemas

Information

Schema: air_cargo_data

Result 13 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
69	13:13:38	SELECT customer_id, depart, arrival FROM passengers_on_flights WHERE route_id = 4 LIMIT 1000	3 row(s) returned	0.000 sec / 0.000 sec
70	13:16:10	EXPLAIN SELECT * FROM passengers_on_flights WHERE route_id = 4	1 row(s) returned	0.015 sec / 0.000 sec
71	13:16:37	EXPLAIN SELECT * FROM passengers_on_flights WHERE route_id = 4	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

32°C Mostly cloudy

ENG IN

13:16 26-09-2023

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

The screenshot shows the MySQL Workbench interface with the following details:

- File Bar:** File, Edit, View, Query, Database, Server, Tools, Scripting, Help.
- Schemas:** air_cargo_data (selected), customer, passengers_on_flights, routes, ticket_details, Views, Stored Procedures, Functions, sys.
- SQL Editor:** air_cargo_data - Schema, SQL File 3*, EXPLAIN SELECT * FROM passengers_on_flights WHERE route_id = 4; (repeated twice), EXPLAIN SELECT * FROM passengers_on_flights WHERE route_id = 4; (highlighted), EXPLAIN SELECT * FROM passengers_on_flights WHERE route_id = 4; (highlighted).
- Result Grid:** Shows the execution plan for the third query:

	id	select_type	table	partitions	type	possible_keys	key	key_len	ref	rows	filtered	Extra
▶	1	SIMPLE	passengers_on_flights	NULL	ref	idx_route_id	idx_route_id	5	const	3	100.00	NULL
- Output:** Action Output table showing three rows of EXPLAIN SELECT statements with their execution times and message counts.
- System Tray:** 32°C, Mostly cloudy, system icons (Windows Start, Search, Task View, Edge, File Explorer, Mail, WhatsApp, Teams, Chrome, File History, Taskbar Icons, Task View, Network, Battery, Volume, Date/Time).
- Bottom Bar:** ENG IN, Wi-Fi, Sound, 13:17, 26-09-2023.

The screenshot shows the MySQL Workbench interface. The top menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The left sidebar displays the Navigator, Schemas (with air_cargo_data selected), Administration, Information, and Object Info. The main area contains a SQL editor titled 'air_cargo_data - Schema' with the following query:

```
102 UNION ALL
103
104 -- Subquery 2: Group by aircraft_id
105
106 SELECT
107     NULL AS customer_id, -- NULL to distinguish from customer totals
108     aircraft_id,
109     SUM(price_per_ticket * no_of_tickets) AS total_price
110 FROM ticket_details
111 GROUP BY aircraft_id
112
113 ORDER BY customer_id, aircraft_id;
```

The results grid shows the following data:

	customer_id	aircraft_id	total_price
1	NULL	767-301ER	5634
2	NULL	A321	4270
3	NULL	CRJ900	3440
4	NULL	ERJ142	2025
5	1	NULL	570
6	2	NULL	635
7	4	NULL	780
8	5	NULL	670
9	7	NULL	430
10	8	NULL	465

The bottom section shows the Action Output log with the following entries:

#	Time	Action	Message	Duration / Fetch
72	13:17:11	EXPLAIN SELECT * FROM passengers_on_flights WHERE route_id = 4	1 row(s) returned	0.000 sec / 0.000 sec
73	13:19:05	SELECT customer_id, aircraft_id, SUM(price_per_ticket * no_of_tickets) AS total_price FROM ticket_d...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se...	0.000 sec
74	13:20:43	SELECT customer_id, NULL AS aircraft_id, -- NULL to distinguish from aircraft totals SUM(price_per_t...	37 row(s) returned	0.016 sec / 0.000 sec

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

SQl SQL i + F SQL File 3* ×

Navigator: air_cargo_data - Schema

SCHEMAS air_cargo_data

Tables: customer, passengers_on_flights, routes, ticket_details

Views, Stored Procedures, Functions

sys

Administration Schemas

Information

Schema: air_cargo_data

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

1 32°C Mostly cloudy

17 13:22:32 26-09-2023

13:22 26-09-2023

99 SUM(price_per_ticket * no_of_tickets) AS total_price
100 FROM ticket_details
101 GROUP BY customer_id
102
103 UNION ALL
104
105 -- Subquery 2: Group by aircraft_id
106 SELECT
107 NULL AS customer_id, -- NULL to distinguish from customer totals
108 aircraft_id,
109 SUM(price_per_ticket * no_of_tickets) AS total_price
110 FROM ticket_details
111 GROUP BY aircraft_id
112
113 ORDER BY customer_id, aircraft_id;
114
115
116 • CREATE VIEW business_class_customers AS
117 SELECT c.customer_id, c.first_name, c.last_name, t.brand AS airline_brand
118 FROM Customer c
119 INNER JOIN ticket_details t ON c.customer_id = t.customer_id
120 WHERE t.class_id = 'Business';
121

Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
✗	73 13:19:05	SELECT customer_id, aircraft_id, SUM(price_per_ticket * no_of_tickets) AS total_price FROM ticket_d...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se...	0.000 sec
✓	74 13:20:43	SELECT customer_id, NULL AS aircraft_id, -- NULL to distinguish from aircraft totals SUM(price_per_t...	37 row(s) returned	0.016 sec / 0.000 sec
✓	75 13:22:32	CREATE VIEW business_class_customers AS SELECT c.customer_id, c.first_name, c.last_name, t.brand AS ...	0 row(s) affected	0.016 sec

1 ENG IN 13:22 26-09-2023

The screenshot shows the MySQL Workbench interface with the following details:

- Title Bar:** MySQL Workbench - Local instance MySQL80
- Menu Bar:** File, Edit, View, Query, Database, Server, Tools, Scripting, Help
- Toolbar:** Includes icons for New, Open, Save, Print, Copy, Paste, Find, Replace, and various database operations.
- Navigator:** Shows the schema tree for the 'air_cargo_data' database, which contains tables like 'customer', 'passenger_on_flights', 'routes', and 'ticket_details', as well as views, stored procedures, and functions. The 'sys' schema is also listed.
- SQL Editor:** The main workspace displays the following SQL code for creating a stored procedure:

```
DELIMITER //
CREATE PROCEDURE GetPassengerDetailsByRouteRange(
    IN route_start INT,
    IN route_end INT
)
BEGIN
    DECLARE table_exists INT;
    -- Check if the table exists
    SELECT COUNT(*) INTO table_exists
    FROM information_schema.tables
    WHERE table_name = 'passenger_on_flights';
    -- If the table doesn't exist, return an error message
    IF table_exists = 0 THEN
        SIGNAL SQLSTATE '45000'
        SET MESSAGE_TEXT = 'Table passenger_on_flights does not exist';
    ELSE
        -- If the table exists, execute the dynamic SQL query
        SET @sql = CONCAT(
            'SELECT * FROM passenger_on_flights WHERE route_id BETWEEN ',
            route_start, ' AND ', route_end
        );
    END IF;
END//
```

- Output Panel:** Shows the execution log with three entries:

#	Time	Action	Message	Duration / Fetch
74	13:20:43	SELECT customer_id, NULL AS aircraft_id, - NULL to distinguish from aircraft totals	SUM(price_per_t... 37 row(s) returned	0.016 sec / 0.000 sec
75	13:22:32	CREATE VIEW business_class_customers AS SELECT c.customer_id, c.first_name, c.last_name, t.brand AS ...	0 row(s) affected	0.016 sec
76	13:23:59	CREATE PROCEDURE GetPassengerDetailsByRouteRange(IN route_start INT, IN route_end INT) BE...	0 row(s) affected	0.031 sec

The screenshot shows the MySQL Workbench interface with the following details:

- Top Bar:** MySQL Workbench, Local instance MySQL80.
- Menu Bar:** File, Edit, View, Query, Database, Server, Tools, Scripting, Help.
- Toolbar:** Includes icons for New, Open, Save, Print, Copy, Paste, Find, Replace, and various search functions.
- Navigator:** Schemas (air_cargo_data selected), Tables (customer, passengers_on_flights, routes, ticket_details), Views, Stored Procedures, Functions, sys.
- SQL Editor:** air_cargo_data - Schema, SQL File 3*. The code is as follows:

```
132     SELECT COUNT(*) INTO table_exists
133     FROM information_schema.tables
134     WHERE table_name = 'passengers_on_flights';
135
136     -- If the table doesn't exist, return an error message
137     IF table_exists = 0 THEN
138         SIGNAL SQLSTATE '45000'
139         SET MESSAGE_TEXT = 'Table passengers_on_flights does not exist';
140     ELSE
141         -- If the table exists, execute the dynamic SQL query
142         SET @sql = CONCAT(
143             'SELECT * FROM passengers_on_flights WHERE route_id BETWEEN ',
144             route_start, ' AND ', route_end
145         );
146
147         PREPARE stmt FROM @sql;
148         EXECUTE stmt;
149         DEALLOCATE PREPARE stmt;
150     END IF;
151 END;
152 //
153 DELIMITER ;
```

- Right Panel:** SQLAdditions, Context Help (disabled), Snippets.
- Output:** Action Output table showing execution logs:

#	Time	Action	Message	Duration / Fetch
74	13:20:43	SELECT customer_id, NULL AS aircraft_id, -- NULL to distinguish from aircraft totals	SUM(price_per_t... 37 row(s) returned	0.016 sec / 0.000 sec
75	13:22:32	CREATE VIEW business_class_customers AS SELECT c.customer_id, c.first_name, c.last_name, t.brand AS ...	0 row(s) affected	0.016 sec
76	13:23:59	CREATE PROCEDURE GetPassengerDetailsByRouteRange(IN route_start INT, IN route_end INT) BE...	0 row(s) affected	0.031 sec

- Bottom:** Object Info, Session, System tray (weather, notifications, system icons).

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

SQl SQL i + 100 SQL File 3* ×

Navigator: air_cargo_data - Schema

SCHEMAS air_cargo_data

Tables customer passengers_on_flights routes ticket_details

Views Stored Procedures Functions

sys

DELIMITER //

CREATE PROCEDURE GetRoutesByDistance()

BEGIN

SELECT *
FROM routes
WHERE Distance_miles > 2000;

END;
//

DELIMITER ;

CALL GetRoutesByDistance();

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

route_id	flight_num	origin_airport	destination_airport	aircraft_id	distance_miles
1	1111	EWR	HNL	767-301ER	4962
2	1112	HNL	EWR	767-301ER	4962
3	1113	EWR	LHR	A321	3466
4	1114	JFK	LAX	767-301ER	2475
5	1115	LAX	JFK	767-301ER	2475
6	1116	HNL	LAX	767-301ER	2556
10	1120	HNL	DEN	A321	3365
12	1122	ABI	ADK	767-301ER	4300
13	1123	ADK	BQN	A321	2232
14	1124	BQN	CAK	A321	2445

Result 16 × Read Only Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
76	13:23:59	CREATE PROCEDURE GetPassengerDetailsByRouteRange(IN route_start INT, IN route_end INT) BE...	0 row(s) affected	0.031 sec
77	13:25:51	CREATE PROCEDURE GetRoutesByDistance() BEGIN SELECT * FROM routes WHERE Distance_mi...	0 row(s) affected	0.016 sec
78	13:26:18	CALL GetRoutesByDistance()	24 row(s) returned	0.016 sec / 0.000 sec

Object Info Session

1 32°C Mostly cloudy ENG IN 13:26 26-09-2023

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 ×

File Edit View Query Database Server Tools Scripting Help

Schemas

air_cargo_data - Schema SQL File 3*

Navigator: air_cargo_data - Schema

SCHEMAS

Filter objects

air_cargo_data

Tables

- customer
- passengers_on_flights
- routes
- ticket_details

Views

Stored Procedures

Functions

sys

Administration Schemas

Information

Schema: air_cargo_data

SQL Additions

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

```
164    DELIMITER ;  
165  
166 • CALL GetRoutesByDistance();  
167  
168  
169 • DELIMITER //  
170 • CREATE PROCEDURE GroupDistanceCategories()  
171 BEGIN  
172     SELECT  
173         Flight_num,  
174         Origin_airport,  
175         Destination_airport,  
176         Distance_miles,  
177         CASE  
178             WHEN Distance_miles >= 0 AND Distance_miles <= 2000 THEN 'Short Distance Travel (SDT)'  
179             WHEN Distance_miles > 2000 AND Distance_miles <= 6500 THEN 'Intermediate Distance Travel (IDT)'  
180             WHEN Distance_miles > 6500 THEN 'Long Distance Travel (LDT)'  
181         END AS Distance_Category  
182     FROM routes;  
183 END;  
184 //  
185 DELIMITER ;
```

Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
77	13:25:51	CREATE PROCEDURE GetRoutesByDistance() BEGIN SELECT * FROM routes WHERE Distance_mi...	0 row(s) affected	0.016 sec
78	13:26:18	CALL GetRoutesByDistance()	24 row(s) returned	0.016 sec / 0.000 sec
79	13:28:22	CREATE PROCEDURE GroupDistanceCategories() BEGIN SELECT Flight_num, Origin_airport, ...	0 row(s) affected	0.016 sec

Object Info Session

1 32°C Mostly cloudy

ENG IN

13:28 26-09-2023

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Schemas air_cargo_data - Schema SQL File 3*

Navigator: air_cargo_data - Schema SQL File 3*

SCHEMAS air_cargo_data Tables customer passengers_on_flights routes ticket_details Views Stored Procedures Functions sys

CASE

```
177 WHEN Distance_miles >= 0 AND Distance_miles <= 2000 THEN 'Short Distance Travel (SDT)'  
178 WHEN Distance_miles > 2000 AND Distance_miles <= 6500 THEN 'Intermediate Distance Travel (IDT)'  
179 WHEN Distance_miles > 6500 THEN 'Long Distance Travel (LDT)'  
180 END AS Distance_Category  
181 FROM routes;  
182 END;  
183 //  
184 DELIMITER ;
```

CALL GroupDistanceCategories();

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

Flight_num	Origin_airport	Destination_airport	Distance_miles	Distance_Category
1111	EWR	HNL	4962	Intermediate Distance Travel (IDT)
1112	HNL	EWR	4962	Intermediate Distance Travel (IDT)
1113	EWR	LHR	3466	Intermediate Distance Travel (IDT)
1114	JFK	LAX	2475	Intermediate Distance Travel (IDT)
1115	LAX	JFK	2475	Intermediate Distance Travel (IDT)
1116	HNL	LAX	2556	Intermediate Distance Travel (IDT)
1117	LAX	ORD	1745	Short Distance Travel (SDT)
1118	ORD	EWR	719	Short Distance Travel (SDT)
1119	DEN	LAX	862	Short Distance Travel (SDT)
1120	HNL	DEN	3365	Intermediate Distance Travel (IDT)

Result 17 x Read Only Context Help Snippets

Output Action Output

#	Time	Action	Message	Duration / Fetch
78	13:26:18	CALL GetRoutesByDistance()	24 row(s) returned	0.016 sec / 0.000 sec
79	13:28:22	CREATE PROCEDURE GroupDistanceCategories() BEGIN SELECT Flight_num, Origin_airport, ...	0 row(s) affected	0.016 sec
80	13:28:53	CALL GroupDistanceCategories()	49 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

1 32°C Mostly cloudy

ENG IN

13:29 26-09-2023

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 ×

File Edit View Query Database Server Tools Scripting Help

SQl SQL i + 100% SQL File 3* ×

Navigator: air_cargo_data - Schema

SCHEMAS air_cargo_data

Tables customer passengers_on_flights routes ticket_details

Views Stored Procedures Functions

sys

Administration Schemas

Information

Schema: air_cargo_data

183 END;

184 //

185 DELIMITER ;

186

187 • CALL GroupDistanceCategories();

188

189

190 DELIMITER //

191 • CREATE FUNCTION DetermineComplimentaryServices(class_id VARCHAR(255)) RETURNS VARCHAR(3)

192 BEGIN

193 DECLARE is_complimentary VARCHAR(3);

194

195 IF class_id IN ('Business', 'Economy Plus') THEN

196 SET is_complimentary = 'Yes';

197 ELSE

198 SET is_complimentary = 'No';

199 END IF;

200

201 RETURN is_complimentary;

202 END;

203 //

204 DELIMITER ;

205

206

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

Action Output

#	Time	Action	Message	Duration / Fetch
82	13:35:55	CREATE FUNCTION GetComplimentaryServices(class_id VARCHAR(255)) RETURNS VARCHAR(3) BEGIN ...	Error Code: 1418. This function has none of DETERMINISTIC, NO SQL, or READS SQL DATA in its declaratio...	0.000 sec
83	13:37:44	SET GLOBAL log_bin_trust_function_creators = 1	0 row(s) affected, 1 warning(s): 1287 '@@log_bin_trust_function_creators' is deprecated and will be removed i...	0.000 sec
84	13:41:16	CREATE FUNCTION DetermineComplimentaryServices(class_id VARCHAR(255)) RETURNS VARCHAR(3) B...	0 row(s) affected	0.015 sec

Object Info Session

1 32°C Mostly cloudy

ENG IN

13:41 26-09-2023

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

SQl SQL i + 10 Schemas air_cargo_data - Schema SQL File 3* ×

Navigator: SCHEMAS air_cargo_data Tables customer passengers_on_flights routes ticket_details Views Stored Procedures Functions sys

Filter objects

196 SET is_complimentary = 'Yes';
197 Execute the selected portion of the script or everything, if there is no selection
198 SET is_complimentary = 'No';
199 END IF;
200
201 RETURN is_complimentary;
202 END;
203 //
204 DELIMITER ;
205
206 DELIMITER //
207 • CREATE PROCEDURE GetTicketDetailsWithComplimentaryServices()
208 BEGIN
209 SELECT
210 p_date AS Ticket_Purchase_Date,
211 customer_id AS Customer_ID,
212 class_id AS Class_ID,
213 DetermineComplimentaryServices(class_id) AS Complimentary_Services
214 FROM ticket_details;
215 END;
216 //
217 DELIMITER ;

Administration Schemas

Information

Schema: air_cargo_data

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
83	13:37:44	SET GLOBAL log_bin_trust_function_creators = 1	0 row(s) affected, 1 warning(s): 1287 '@@log_bin_trust_function_creators' is deprecated and will be removed in a future release.	0.000 sec
84	13:41:16	CREATE FUNCTION DetermineComplimentaryServices(class_id VARCHAR(255)) RETURNS VARCHAR(3) B...	0 row(s) affected	0.015 sec
85	13:42:01	CREATE PROCEDURE GetTicketDetailsWithComplimentaryServices() BEGIN SELECT p_date AS Tic...	0 row(s) affected	0.016 sec

Object Info Session

1 32°C Mostly cloudy

ENG IN

13:42 26-09-2023

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

SQl SQL i + 1000 rows Limit to 1000 rows SQL File 3* ×

Navigator: air_cargo_data - Schema

SCHEMAS air_cargo_data

Tables customer passengers_on_flights routes ticket_details

Views Stored Procedures Functions

sys

208 BEGIN
209 SELECT
210 p_date AS Ticket_Purchase_Date,
211 customer_id AS Customer_ID,
212 class_id AS Class_ID,
213 DetermineComplimentaryServices(class_id) AS Complementary_Services
214 FROM ticket_details;
215 END;
216 //
217 DELIMITER ;
218
219 • CALL GetTicketDetailsWithComplimentaryServices();

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor Field Types

	Ticket_Purchase_Date	Customer_ID	Class_ID	Complementary_Services
▶	26-12-2018	27	Economy	No
	02-02-2020	22	Economy Plus	Yes
	03-03-2020	21	Business	No
	04-04-2020	4	First Class	No
	05-05-2020	5	Economy	No
	07-07-2020	7	Business	No
	08-08-2020	8	Economy Plus	Yes
	09-09-2020	9	First Class	No
	10-10-2020	10	Economy	No
	11-11-2020	11	Business	No

Result 18 × Read Only Context Help Snippets

Output Action Output

#	Time	Action	Message	Duration / Fetch
✓	84 13:41:16	CREATE FUNCTION DetermineComplimentaryServices(class_id VARCHAR(255)) RETURNS VARCHAR(3) B...	0 row(s) affected	0.015 sec
✓	85 13:42:01	CREATE PROCEDURE GetTicketDetailsWithComplimentaryServices() BEGIN SELECT p_date AS Tic...	0 row(s) affected	0.016 sec
✓	86 13:42:31	CALL GetTicketDetailsWithComplimentaryServices()	50 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

32°C Mostly cloudy ENG IN 13:42 26-09-2023

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 ×

File Edit View Query Database Server Tools Scripting Help

Schemas air_cargo_data - Schema SQL File 3*

Navigator: Schemas air_cargo_data Tables customer passengers_on_flights routes ticket_details Views Stored Procedures Functions sys

Filter objects

221
222 DELIMITER //
223 • CREATE PROCEDURE GetCustomerByLastName()
224 BEGIN
225 DECLARE done INT DEFAULT 0;
226 DECLARE customer_id INT;
227 DECLARE first_name VARCHAR(255);
228 DECLARE last_name VARCHAR(255);
229
230 -- Declare a cursor to fetch records
231 DECLARE customer_cursor CURSOR FOR
232 SELECT customer_id, first_name, last_name
233 FROM customer
234 WHERE last_name LIKE '%Scott'
235 LIMIT 1;
236
237 -- Declare a handler for when no records are found
238 DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1;
239
240 OPEN customer_cursor;
241
242 -- Fetch the first matching record
243 FETCH customer_cursor INTO customer_id, first_name, last_name;
244

Administration Schemas

Information

Schema: air_cargo_data

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
✓ 85	13:42:01	CREATE PROCEDURE GetTicketDetailsWithComplimentaryServices() BEGIN SELECT p_date AS Tic...	0 row(s) affected	0.016 sec
✓ 86	13:42:31	CALL GetTicketDetailsWithComplimentaryServices()	50 row(s) returned	0.000 sec / 0.000 sec
✓ 87	13:44:18	CREATE PROCEDURE GetCustomerByLastName() BEGIN DECLARE done INT DEFAULT 0; DECLAR...	0 row(s) affected	0.000 sec

Object Info Session

32°C Hot weather

ENG IN 13:44 26-09-2023

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

SQl

Navigator: air_cargo_data - Schema SQL File 3*

SCHEMAS

Filter objects

air_cargo_data

Tables

- customer
- passengers_on_flights
- routes
- ticket_details

Views

Stored Procedures

Functions

sys

-- Declare a handler for when no records are found
DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1;

OPEN customer_cursor;

-- Fetch the first matching record
FETCH customer_cursor INTO customer_id, first_name, last_name;

-- Close the cursor
CLOSE customer_cursor;

-- Check if a record was found
IF done = 0 THEN
 SELECT customer_id, first_name, last_name;
ELSE
 SELECT 'No customer with last name ending with Scott found.';
END IF;
END;
//
DELIMITER ;

Administration Schemas

Information

Schema: air_cargo_data

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 85	13:42:01	CREATE PROCEDURE GetTicketDetailsWithComplimentaryServices() BEGIN SELECT p_date AS Tic...	0 row(s) affected	0.016 sec
✓ 86	13:42:31	CALL GetTicketDetailsWithComplimentaryServices()	50 row(s) returned	0.000 sec / 0.000 sec
✓ 87	13:44:18	CREATE PROCEDURE GetCustomerByLastName() BEGIN DECLARE done INT DEFAULT 0; DECLARE...	0 row(s) affected	0.000 sec

Object Info Session

32°C Hot weather

ENG IN

13:44 26-09-2023

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

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

SQl SQL i + 10 Schemas air_cargo_data - Schema SQL File 3* ×

Navigator: air_cargo_data - Schema SQL File 3* ×

SCHEMAS air_cargo_data Tables customer passengers_on_flights routes ticket_details Views Stored Procedures Functions sys

247 -- Check if a record was found
248 IF done = 0 THEN
249 SELECT customer_id, first_name, last_name;
250 ELSE
251 SELECT 'No customer with last name ending with Scott found.';
252 END IF;
253 END;
254 //
255 DELIMITER ;
256
257 CALL GetCustomerByLastName();

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

No customer with last name ending with Scott found.
No customer with last name ending with Scott f...

Administration Schemas

Information

Schema: air_cargo_data

Result 19 × Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓	86 13:42:31	CALL GetTicketDetailsWithComplimentaryServices()	50 row(s) returned	0.000 sec / 0.000 sec
✓	87 13:44:18	CREATE PROCEDURE GetCustomerByLastName() BEGIN DECLARE done INT DEFAULT 0; DECLARE... 0 row(s) affected		0.000 sec
✓	88 13:44:56	CALL GetCustomerByLastName()	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

32°C ENG IN 13:45 Hot weather 26-09-2023

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

END QUERY

THANK YOU

