

MySQL Workbench

Local instance MySQL80 × unconnected × unconnected × unconnected ×

File Edit View Query Database Server Tools Scripting Help

Schemas

Filter objects

- college
- hmbank
- petpalsdb
- sakila
- sys
- world
- xyz

Administration Schemas

Information

Connection Details

- Name: Local instance M
- Host: localhost
- Port: 3306
- Login User: root
- Current User: root@localhost
- SSL cipher: SSL not used

Server

- Product: MySQL Commun
- Version: 8.0.34

Connector

- Version: C++ 8.1.0

hex 3(2) HEX 2* pthon sql 1 pthon sql 2 SQL File 6*

Limit to 1000 rows

```
1 /* ASSIGNMENT 2
2 /*> TASK 1
3 /*> CREATE THE DATABASE NAMED 'SISDB'*/
4
5 • CREATE DATABASE SISDB;
6 • USE SISDB;
7
8 • CREATE TABLE Students (
9     student_id INT PRIMARY KEY,
10    first_name VARCHAR(50),
11    last_name VARCHAR(50),
12    email VARCHAR(100),
13    date_of_birth DATE,
14    phone_number VARCHAR(20)
15 );
16
17 • INSERT INTO Students VALUES
18    (1, 'Sid', 'Mundhe', 'sidmun@email.com', '1999-03-05', '7654765489'),
19    (2, 'Vedu', 'Wagh', 'veduwagh@email.com', '1974-12-30', '9873451234'),
20    (3, 'Sonu', 'Javkhav', 'sonujavhav@email.com', '1990-06-18', '9865321468').
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
56	22:11:53	INSERT INTO Students VALUES (1, 'Sid', 'Mundhe', 'sidmun@email.com', '1999-03-05', '7654765489')	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.000 sec
57	22:11:53	select * from Students LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80 unconnected unconnected unconnected

File Edit View Query Database Server Tools Scripting Help

Schemas

Filter objects

college hmbank petpalsdb sakila sys world xyz

hex 3(2) HEX 2* python sql 1 python sql 2 SQL File 6*

Limit to 1000 rows

23 (6, 'Teju', 'Patel', 'teju.patel@email.com', '1996-09-27', '987654321'),
24 (7, 'Ankit', 'Dudhani', 'andudhani@email.com', '1988-04-10', '765432198'),
25 (8, 'Shubham', 'Charkha', 'shubchar@email.com', '1977-11-03', '9753124680),
26 (9, 'Akanksha', 'Negi', 'akupnegi@email.com', '1993-08-22', '7890654321'),
27 (10, 'Ishan', 'Mitall', 'ishmittal@email.com', '1985-05-15', '987651234);
28
29 • select * from Students;
30

Administration Schemas

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- Current User:root@localhost
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Server

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Connector

- Version: C++ 8.1.0

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

student_id	first_name	last_name	email	date_of_birth	phone_number
1	Sid	Mundhe	sidmun@email.com	1999-03-05	7654765489
2	Vedu	Wagh	veduwagh@email.com	1974-12-30	9873451234
3	Sonu	Jaybhay	sonujay@email.com	1990-06-18	9865321468
4	Shruti	viren	shrutiviren@email.com	1999-06-18	98657651468
5	Satish	More	satishmore@email.com	1982-01-08	7654321981
6	Teju	Patel	teju.patel@email.com	1996-09-27	987654321
7	Ankit	Dudhani	andudhani@email.com	1988-04-10	765432198
8	Shubham	Charkha	shubchar@email.com	1977-11-03	9753124680
9	Akanksha	Negi	akupnegi@email.com	1993-08-22	7890654321
10	Ishan	Mitall	ishmittal@email.com	1985-05-15	987651234
*	NULL	NULL	NULL	NULL	NULL

Students 1 ×

Action Output

#	Time	Action	Message	Duration / Fetch
56	22:11:53	INSERT INTO Students VALUES (1, 'Sid', 'Mundhe', 'sidmun@email.com', '1999-03-05', '7654765489');	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.000 sec
57	22:11:53	select * from Students LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80 unconnected unconnected unconnected

File Edit View Query Database Server Tools Scripting Help

Schemas

Filter objects

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hex 3(2) HEX 2* pthon sql 1 pthon sql 2 SQL File 6*

Limit to 1000 rows

45 (6, 'Professor', 'Smita', 'prof.Smita@email.com'),
46 (7, 'Professor', 'Yogesh', 'prof.Yogesh@email.com'),
47 (8, 'Professor', 'Rahul', 'prof.Rahul@email.com'),
48 (9, 'Professor', 'Katkari', 'prof.Katkari@email.com'),
49 (10, 'Professor', 'Patkar', 'prof.Patkar@email.com');
50
51 • select * from Teacher;
52

Administration Schemas

Information

Connection Details

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- Host: localhost
- Port: 3306
- Login User: root
- Current User:root@localhost
- SSL cipher: SSL not used

Server

- Product: MySQL Commun
- Version: 8.0.34

Connector

- Version: C++ 8.1.0

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

teacher_id	first_name	last_name	email
1	Professor	Sowmiya	prof.Sowmiya@email.com
2	Professor	Mainsha	prof.Mainsha@email.com
3	Professor	Karthika	prof.Karthika@email.com
4	Professor	Shammem	prof.Shammem@email.com
5	Professor	Raghu	prof.Raghu@email.com
6	Professor	Smita	prof.Smita@email.com
7	Professor	Yogesh	prof.Yogesh@email.com
8	Professor	Rahul	prof.Rahul@email.com
9	Professor	Katkari	prof.Katkari@email.com
10	Professor	Patkar	prof.Patkar@email.com
*	NULL	NULL	NULL

Teacher 2 x Apply Revert

Output

Action Output

#	Time	Action	Message	Duration / Fetch
60	22:14:31	INSERT INTO Teacher VALUES (1, 'Professor', 'Sowmiya', 'prof.Sowmiya@email.c...')	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.000 sec
61	22:14:47	select *from Teacher LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80 × unconnected × unconnected × unconnected ×

File Edit View Query Database Server Tools Scripting Help

SQLEditTableImportExportSQLScript

Navigator

SCHEMAS

Filter objects

college hmbank petpalsdb sakila sys world xyz

hex 3(2) HEX 2* python sql 1 python sql 2 SQL File 6*

Limit to 1000 rows

73 • select * from Courses;

74

Administration Schemas

Information

Connection Details

- Name: Local instance M
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- Login User: root
- Current User:root@localhost
- SSL cipher: SSL not used

Server

- Product: MySQL Commun
- Version: 8.0.34

Connector

- Version: C++ 8.1.0

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

course_id	course_name	credits	teacher_id
1	Introduction to Programming	3	1
2	Database Management	4	2
3	Web Development Fundamentals	3	1
4	Data Structures and Algorithms	4	2
5	Database Design and Implementation	3	3
6	Introduction to Artificial Intelligence	4	4
7	Network Security Principles	3	5
8	Software Engineering Practices	4	1
9	Mobile App Development	3	2
10	Cloud Computing Fundamentals	4	3
*	NULL	NULL	NULL

Courses 3 × Apply Revert

Output

Action Output

#	Time	Action	Message	Duration / Fetch
63	22:15:07	INSERT INTO Courses VALUES (1, 'Introduction to Programming', 3, 1), (2, 'Database Management', 4, 2), (3, 'Web Development Fundamentals', 3, 1), (4, 'Data Structures and Algorithms', 4, 2), (5, 'Database Design and Implementation', 3, 3), (6, 'Introduction to Artificial Intelligence', 4, 4), (7, 'Network Security Principles', 3, 5), (8, 'Software Engineering Practices', 4, 1), (9, 'Mobile App Development', 3, 2), (10, 'Cloud Computing Fundamentals', 4, 3)	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.000 sec
64	22:15:27	select * from Courses LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80 × unconnected × unconnected × unconnected ×

File Edit View Query Database Server Tools Scripting Help

Schemas

Filter objects

college
hmbank
petpalsdb
sakila
sys
world
xyz

Navigator

hex 3(2) HEX 2* python sql 1 python sql 2 SQL File 6*

Limit to 1000 rows

90 (6, 4, 6, '2023-02-18'),
91 (7, 5, 7, '2023-02-20'),
92 (8, 1, 8, '2023-02-25'),
93 (9, 2, 9, '2023-03-01'),
94 (10, 3, 10, '2023-03-05');
95
96 • select * from Enrollments;
97

Administration Schemas

Information

Connection Details

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Login User: root
Current User:root@localhost
SSL cipher: SSL not used

Server

Product: MySQL Commun
Version: 8.0.34

Connector

Version: C++ 8.1.0

Result Grid

Filter Rows: Edit: Export/Import: Wrap Cell Content:

enrollment_id	student_id	course_id	enrollment_date
1	1	1	2023-01-15
2	2	2	2023-01-20
3	1	3	2023-02-10
4	2	4	2023-02-12
5	3	5	2023-02-15
6	4	6	2023-02-18
7	5	7	2023-02-20
8	1	8	2023-02-25
9	2	9	2023-03-01
10	3	10	2023-03-05
*	NULL	NULL	NULL

Enrollments 4 × Apply Revert

Output

Action Output

#	Time	Action	Message	Duration / Fetch
66	22:15:43	INSERT INTO Enrollments VALUES (1, 1, 1, '2023-01-15'), (2, 2, 2, '2023-01-20'), ...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.000 sec
67	22:15:59	select * from Enrollments LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80 × unconnected × unconnected × unconnected ×

File Edit View Query Database Server Tools Scripting Help

SQl CSV JSON XML DML DDL DCL FTS SQL File

Navigator hex 3(2) HEX 2* python sql 1 python sql 2 SQL File 6*

SCHEMAS

Filter objects

college hmbank petpalsdb sakila sys world xyz

113 (6, 6, 950.00, '2023-03-25'),
114 (7, 7, 500.00, '2023-04-01'),
115 (8, 8, 800.00, '2023-04-05'),
116 (9, 9, 720.00, '2023-04-10'),
117 (10, 10, 880.00, '2023-04-15');
118
119 • select * from Payments;
120

Administration Schemas

Information

Connection Details

Name: Local instance M
Host: localhost
Port: 3306
Login User: root
Current User:root@localhost
SSL cipher: SSL not used

Server

Product: MySQL Commun
Version: 8.0.34

Connector

Version: C++ 8.1.0

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

	payment_id	student_id	amount	payment_date
1	1	500.00	2023-02-01	
2	2	750.00	2023-02-05	
3	3	600.00	2023-03-10	
4	4	850.00	2023-03-15	
5	5	700.00	2023-03-20	
6	6	950.00	2023-03-25	
7	7	500.00	2023-04-01	
8	8	800.00	2023-04-05	
9	9	720.00	2023-04-10	
10	10	880.00	2023-04-15	
*	NULL	NULL	NULL	NULL

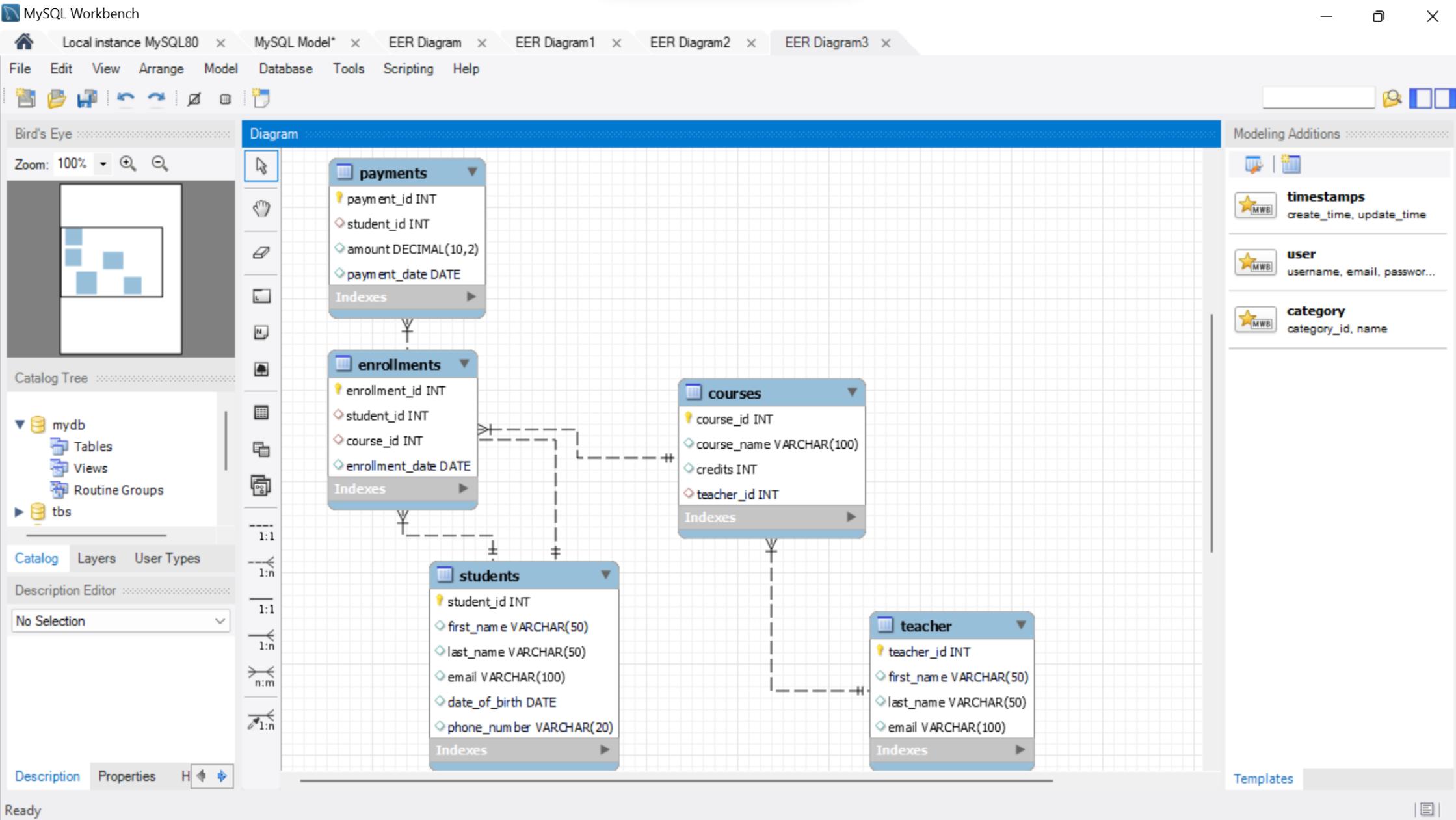
Payments 5 × Apply Revert

Action Output

#	Time	Action	Message	Duration / Fetch
69	22:16:19	INSERT INTO Payments VALUES (1, 1, 500.00, '2023-02-01), (2, 2, 750.00, '2023-02-05), (3, 3, 600.00, '2023-03-10), (4, 4, 850.00, '2023-03-15), (5, 5, 700.00, '2023-03-20), (6, 6, 950.00, '2023-03-25), (7, 7, 500.00, '2023-04-01), (8, 8, 800.00, '2023-04-05), (9, 9, 720.00, '2023-04-10), (10, 10, 880.00, '2023-04-15);	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.000 sec
70	22:16:35	select * from Payments LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed





Limit to 1000 rows

```
121 /*Tasks 2: Select, where, between, AND, LIKE:  
122  
123     1. Write an SQL query to insert a new student into the "Students" table with the following details:  
124         a. First Name: John  
125         b. Last Name: Doe  
126         c. Date of Birth: 1995-08-15  
127         d. Email: john.doe@example.com  
128         e. Phone Number: 1234567890*/  
129  
130 • INSERT INTO Students (student_id,first_name, last_name, date_of_birth, email, phone_number)  
131     VALUES (11,'John', 'Doe', '1995-08-15', 'john.doe@example.com', '1234567890');
```

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

	student_id	first_name	last_name	email	date_of_birth	phone_number
▶	1	Sid	Mundhe	sidmun@email.com	1999-03-05	7654765489
	2	Vedu	Wagh	veduwagh@email.com	1974-12-30	9873451234
	3	Sonu	Jaybhay	sonujay@email.com	1990-06-18	9865321468
	4	Shruti	viren	shrutiviren@email.com	1999-06-18	98657651468
	5	Satish	More	satishmore@email.com	1982-01-08	7654321981
	6	Teju	Patel	teju.patel@email.com	1996-09-27	987654321
	7	Ankit	Dudhani	andudhani@email.com	1988-04-10	765432198
	8	Shubham	Charkha	shubchar@email.com	1977-11-03	9753124680
	9	Akanksha	Negi	akupnegi@email.com	1993-08-22	7890654321
	10	Ishan	Mittal	ishmittal@email.com	1985-05-15	987651234
*	11	John	Doe	john.doe@example.com	1995-08-15	1234567890
*		NULL	NULL	NULL	NULL	NULL

MySQL Workbench

Local instance MySQL80 unconnected unconnected unconnected

File Edit View Query Database Server Tools Scripting Help

Schemas: college, hmbank, petpalsdb, sakila, sys, world, xyz

Navigator

SCHEMAS

Filter objects

133
134 /* 2. Write an SQL query to enroll a student in a course. Choose an existing student
135 and course and insert a record into the "Enrollments" table with the enrollment date.*/
136
137 • INSERT INTO Enrollments (enrollment_id,student_id, course_id, enrollment_date)
138 VALUES (11,1, 1, '2023-05-01');
139 • select * from Enrollments;
140

Administration Schemas

Information

Connection Details

- Name: Local instance M
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- Port: 3306
- Login User: root
- Current User:root@localhost
- SSL cipher: SSL not used

Server

- Product: MySQL Commun
- Version: 8.0.34

Connector

- Version: C++ 8.1.0

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

enrollment_id	student_id	course_id	enrollment_date
3	1	3	2023-02-10
4	2	4	2023-02-12
5	3	5	2023-02-15
6	4	6	2023-02-18
7	5	7	2023-02-20
8	1	8	2023-02-25
9	2	9	2023-03-01
10	3	10	2023-03-05
11	1	1	2023-03-05
*	HULL	HULL	HULL

Enrollments 7

Action Output

#	Time	Action	Message	Duration / Fetch
73	22:19:00	INSERT INTO Enrollments (enrollment_id,student_id, course_id, enrollment_date) V...	1 row(s) affected	0.000 sec
74	22:19:16	select *from Enrollments LIMIT 0, 1000	11 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80 unconnected unconnected unconnected

File Edit View Query Database Server Tools Scripting Help

Schemas: college, hmbank, petpalsdb, sakila, sys, world, xyz

Filter objects

SCHEMAS

Administration Schemas Information

Connection Details

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- Version: 8.0.34

Connector

- Version: C++ 8.1.0

hex 3(2) HEX 2* python sql 1 python sql 2 SQL File 6*

139 • select * from Enrollments;

140

141 /* 3. Update the email address of a specific teacher in the "Teacher" table. Choose any teacher and modify their email address.*/

142 • UPDATE Teacher

143 SET email = 'KARTHIKA12@GMAIL.com'

144 WHERE teacher_id = 3;

145 • select email from Teacher where teacher_id=3;

146

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

email
KARTHIKA12@GMAIL.com

Result Grid

Form Editor

Field Types

Teacher 8 x Read Only

Action Output

#	Time	Action	Message	Duration / Fetch
75	22:19:53	UPDATE Teacher SET email = 'KARTHIKA12@GMAIL.com' WHERE teacher_id = 3	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.016 sec
76	22:20:31	select email from Teacher where teacher_id=3 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80 unconnected unconnected unconnected

File Edit View Query Database Server Tools Scripting Help

Schemas: college, hmbank, petpalsdb, sakila, sys, world, xyz

Navigator

SCHEMAS

Filter objects

146
147 /* 4. Write an SQL query to delete a specific enrollment record from the "Enrollments" table.
148 Select an enrollment record based on the student and course.*/
149
150 • DELETE FROM Enrollments
151 WHERE student_id = 1 AND course_id = 1;
152 • select * from Enrollments;

Administration Schemas Information Connection Details Name: Local instance M Host: localhost Port: 3306 Login User: root Current User:root@localhost SSL cipher: SSL not used Server Product: MySQL Commun Version: 8.0.34 Connector Version: C++ 8.1.0

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

enrollment_id	student_id	course_id	enrollment_date
2	2	2	2023-01-20
3	1	3	2023-02-10
4	2	4	2023-02-12
5	3	5	2023-02-15
6	4	6	2023-02-18
7	5	7	2023-02-20
8	1	8	2023-02-25
9	2	9	2023-03-01
10	3	10	2023-03-05
*	HULL	HULL	HULL

Enrollments 9 ×

Action Output

#	Time	Action	Message	Duration / Fetch
77	22:21:23	DELETE FROM Enrollments WHERE student_id = 1 AND course_id = 1	2 row(s) affected	0.000 sec
78	22:21:23	select * from Enrollments LIMIT 0, 1000	9 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80 unconnected unconnected unconnected

File Edit View Query Database Server Tools Scripting Help

Schemas: college, hmbank, petpalsdb, sakila, sys, world, xyz

Code Editor (hex 3(2)):

```
153
154     /* 5. Update the "Courses" table to assign a specific teacher to a course. Choose any course and teacher from the respective tables.*/
155
156 • UPDATE Courses
157     SET teacher_id = 2
158     WHERE course_id = 1;
159 • select * from Courses;
```

Result Grid:

course_id	course_name	credits	teacher_id
1	Introduction to Programming	3	2
2	Database Management	4	2
3	Web Development Fundamentals	3	1
4	Data Structures and Algorithms	4	2
5	Database Design and Implementation	3	3
6	Introduction to Artificial Intelligence	4	4
7	Network Security Principles	3	5
8	Software Engineering Practices	4	1
9	Mobile App Development	3	2
10	Cloud Computing Fundamentals	4	3
*	NULL	NULL	NULL

Output:

#	Time	Action	Message	Duration / Fetch
79	22:22:08	UPDATE Courses SET teacher_id = 2 WHERE course_id = 1	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.015 sec
80	22:22:24	select * from Courses LIMIT 0, 1000	10 row(s) returned	0.016 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80 unconnected unconnected unconnected

File Edit View Query Database Server Tools Scripting Help

Schemas

Filter objects

college hmbank petpalsdb sakila sys world xyz

HEX 2* python sql 1 python sql 2 SQL File 6*

/* 7. Update the payment amount for a specific payment record in the "Payments" table.

Choose any payment record and modify the payment amount*/

163

164 • UPDATE Payments

165 SET amount = 1200.00

166 WHERE payment_id = 1;

167 • select * from Payments;

168

Administration Schemas

Information

Connection Details

Name: Local instance M
Host: localhost
Port: 3306
Login User: root
Current User:root@localhost
SSL cipher: SSL not used

Server

Product: MySQL Commun
Version: 8.0.34

Connector

Version: C++ 8.1.0

Result Grid

Filter Rows: Edit: Export/Import: Wrap Cell Content:

	payment_id	student_id	amount	payment_date
1	1	1200.00	2023-02-01	
2	2	750.00	2023-02-05	
3	3	600.00	2023-03-10	
4	4	850.00	2023-03-15	
5	5	700.00	2023-03-20	
6	6	950.00	2023-03-25	
7	7	500.00	2023-04-01	
8	8	800.00	2023-04-05	
9	9	720.00	2023-04-10	
10	10	880.00	2023-04-15	
*	NULL	NULL	NULL	NULL

Payments 11

Output

Action Output

#	Time	Action	Message	Duration / Fetch
82	22:23:30	UPDATE Payments SET amount = 1200.00 WHERE payment_id = 1	0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0	0.000 sec
83	22:23:30	select * from Payments LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Schemas

Filter objects

college

hmbank

Tables

Views

Stored Procedures

Functions

petpalsdb

sakila

sisdb

Tables

Administration Schemas

No object selected

Navigator

hex 3(2) HEX 2* python sql 1 python sql 2 sql 1

171 1. Write an SQL query to calculate the total payments made by a specific student. You will need to join the "Payments" table with the "Students" table based on the student's ID. */
172
173
174 • SELECT s.first_name, s.last_name, SUM(p.amount) AS total_payments
175 FROM Students s
176 LEFT JOIN Payments p ON s.student_id = p.student_id
177 WHERE s.student_id = 1;
178

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

first_name	last_name	total_payments
Sid	Mundhe	1200.00

Result 1 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
56	10:55:16	USE SISDB	0 row(s) affected	0.000 sec
57	10:55:21	SELECT s.first_name, s.last_name, SUM(p.amount) AS total_payments FROM Stud...	1 row(s) returned	0.016 sec / 0.000 sec

Object Info Session

Result Grid

Form Editor

Field Types

Read Only

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Schemas

Filter objects

college

hmbank

Tables

Views

Stored Procedures

Functions

petpalsdb

sakila

sisdb

Tables

Administration Schemas

No object selected

HEX 3(2) HEX 2* python sql 1 python sql 2 sql 1

178

179 /*2. Write an SQL query to retrieve a list of courses along with the count of students enrolled in each course. Use a JOIN operation between the "Courses" table and the "Enrollments" table. */

180

181 • SELECT c.course_name, COUNT(e.student_id) AS enrolled_students_count

182 FROM Courses c

183 LEFT JOIN Enrollments e ON c.course_id = e.course_id

184 GROUP BY c.course_id, c.course_name;

185

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

course_name	enrolled_students_count
Introduction to Programming	0
Database Management	1
Web Development Fundamentals	1
Data Structures and Algorithms	1
Database Design and Implementation	1
Introduction to Artificial Intelligence	1
Network Security Principles	1
Software Engineering Practices	1
Mobile App Development	1
Cloud Computing Fundamentals	1

Result 2 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
57	10:55:21	SELECT s.first_name, s.last_name, SUM(p.amount) AS total_payments FROM Stud...	1 row(s) returned	0.016 sec / 0.000 sec
58	11:02:59	SELECT c.course_name, COUNT(e.student_id) AS enrolled_students_count FRO...	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQLEdit Schema Browser Database Object Navigator

hex 3(2) HEX2* python sql 1 python sql 2 sql 1

Limit to 1000 rows

Filter objects

SCHEMAS

- college
- hmbank
 - Tables
 - Views
 - Stored Procedures
 - Functions
- petpalsdb
- sakila
- sisdb
 - Tables

Administration Schemas

No object selected

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

first_name	last_name
Teju	Patel
Ankit	Dudhani
Shubham	Charkha
Akanksha	Negi
Ishan	Mitall
John	Doe

Result 3 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
58	11:02:59	SELECT c.course_name, COUNT(e.student_id) AS enrolled_students_count FRO...	10 row(s) returned	0.000 sec / 0.000 sec
59	11:10:37	SELECT s.first_name, s.last_name FROM Students s LEFT JOIN Enrollments e ON ...	6 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Result Grid Form Editor Field Types

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQLEdit Schema Browser Database Object Navigator

hex 3(2) HEX2* python sql 1 python sql 2 sql 1

Limit to 1000 rows Filter objects

SCHEMAS

- college
- hmbank
 - Tables
 - Views
 - Stored Procedures
 - Functions
- petpalsdb
- sakila
- sisdb
 - Tables

Administration Schemas

No object selected

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

first_name	last_name	course_name
Vedu	Wagh	Database Management
Sid	Mundhe	Web Development Fundamentals
Vedu	Wagh	Data Structures and Algorithms
Sonu	Jaybhay	Database Design and Implementation
Shruti	viren	Introduction to Artificial Intelligence
Satish	More	Network Security Principles
Sid	Mundhe	Software Engineering Practices
Vedu	Wagh	Mobile App Development
Sonu	Jaybhay	Cloud Computing Fundamentals

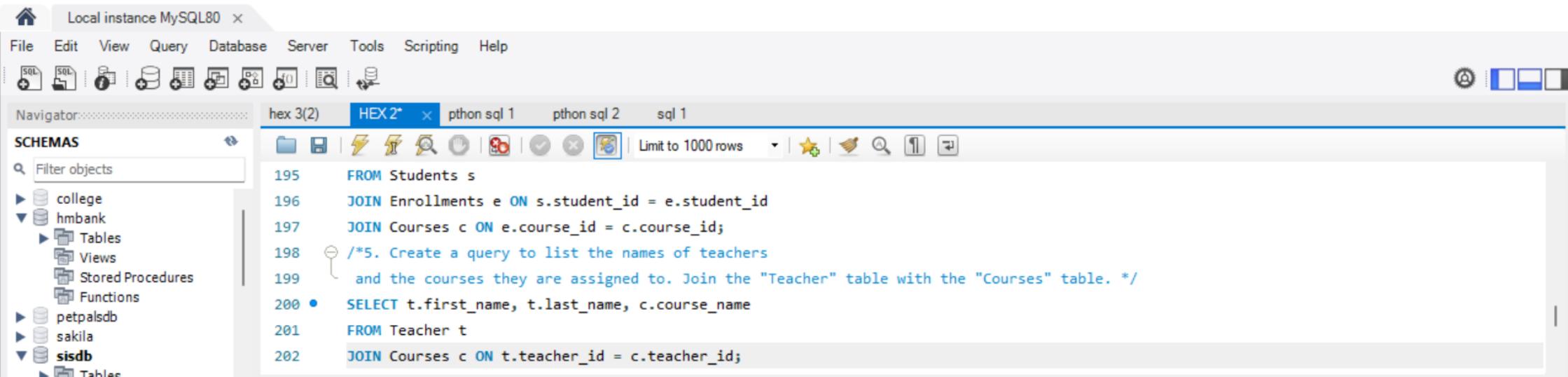
Result 4 x Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
59	11:10:37	SELECT s.first_name, s.last_name FROM Students s LEFT JOIN Enrollments e ON ...	6 row(s) returned	0.000 sec / 0.000 sec
60	11:10:51	SELECT s.first_name, s.last_name, c.course_name FROM Students s JOIN Enrollm...	9 row(s) returned	0.000 sec / 0.000 sec

Object Info Session



Result Grid		Filter Rows:	Export:
	first_name	last_name	course_name
▶	Professor	Mainsha	Introduction to Programming
	Professor	Mainsha	Database Management
	Professor	Sowmiya	Web Development Fundamentals
	Professor	Mainsha	Data Structures and Algorithms
	Professor	Karthika	Database Design and Implementation
	Professor	Shammem	Introduction to Artificial Intelligence
	Professor	Raghu	Network Security Principles
	Professor	Sowmiya	Software Engineering Practices
	Professor	Mainsha	Mobile App Development
	Professor	Karthika	Cloud Computing Fundamentals

Result 5 >

Output

Action Output

#	Time	Action	Message	Duration / Fetch
60	11:10:51	SELECT s.first_name, s.last_name, c.course_name FROM Students s JOIN Enrollment e ON s.student_id = e.student_id JOIN Courses c ON e.course_id = c.course_id WHERE s.last_name = 'Doe'	9 row(s) returned	0.000 sec / 0.000 sec
61	11:11:05	SELECT t.first_name, t.last_name, c.course_name FROM Teachers t JOIN Courses c ON t.teacher_id = c.teacher_id WHERE t.last_name = 'Doe'	10 row(s) returned	0.000 sec / 0.000 sec

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

SQLEdit Schema Browser Database Object Navigator

hex 3(2) HEX2* python sql 1 python sql 2 sql 1

Limit to 1000 rows

Filter objects

SCHEMAS

- college
- hmbank
 - Tables
 - Views
 - Stored Procedures
 - Functions
- petpalsdb
- sakila
- sisdb
 - Tables

Administration Schemas

Information

No object selected

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

first_name	last_name	enrollment_date
Vedu	Wagh	2023-01-20

Result 7 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
62	11:11:45	SELECT s.first_name, s.last_name, e.enrollment_date FROM Students s JOIN Enrol...	0 row(s) returned	0.000 sec / 0.000 sec
63	11:12:00	SELECT s.first_name, s.last_name, e.enrollment_date FROM Students s JOIN Enrol...	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Result Grid Form Editor Field Types

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

SQLEditTableImportExportScriptingSQL Navigator

hex 3(2) HEX2* python sql 1 python sql 2 sql 1

Limit to 1000 rows

Filter objects

SCHEMAS

- college
- hmbank
 - Tables
 - Views
 - Stored Procedures
 - Functions
- petpalsdb
- sakila
- sisdb
 - Tables

Administration Schemas

Information

No object selected

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

first_name	last_name
John	Doe

Result 9 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
64	11:12:16	SELECT s.first_name, s.last_name FROM Students s LEFT JOIN Payments p ON s...	1 row(s) returned	0.000 sec / 0.000 sec
65	11:12:31	SELECT s.first_name, s.last_name FROM Students s LEFT JOIN Payments p ON s...	1 row(s) returned	0.016 sec / 0.000 sec

Object Info Session

Result Grid Form Editor Field Types

Read Only

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQLEditTableImportExportScriptingSQL

Navigator

SCHEMAS

Filter objects

- college
- hmbank
 - Tables
 - Views
 - Stored Procedures
 - Functions
- petpalsdb
- sakila
- sisdb
 - Tables

Administration Schemas

Information

No object selected

hex 3(2) HEX2* python sql 1 python sql 2 sql 1

217 WHERE p.payment_id IS NULL;

218

219 /*8. Write a query to identify courses that have no enrollments. You'll need to use a LEFT JOIN between the "Courses" table and the "Enrollments" table and filter for courses with NULL enrollment records. */

220

221 • SELECT c.course_name

222 FROM Courses c

223 LEFT JOIN Enrollments e ON c.course_id = e.course_id

224 WHERE e.enrollment_id IS NULL;

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

course_name
Introduction to Programming

Result 10 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
65	11:12:31	SELECT s.first_name, s.last_name FROM Students s LEFT JOIN Payments p ON s....	1 row(s) returned	0.016 sec / 0.000 sec
66	11:12:42	SELECT c.course_name FROM Courses c LEFT JOIN Enrollments e ON c.course_i...	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Result Grid Form Editor Field Types

Read Only

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQl DML DDL Scripts SQL Editor

Navigator hex 3(2) HEX 2* python sql 1 python sql 2 sql 1

SCHEMAS

Filter objects

college

hmbank

Tables

Views

Stored Procedures

Functions

petpalsdb

sakila

sisdb

Tables

Administration Schemas

No object selected

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

first_name	last_name
Sid	Mundhe
Sid	Mundhe
Vedu	Wagh
Sonu	Jaybhay
Sonu	Jaybhay

Result 11 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
66	11:12:42	SELECT c.course_name FROM Courses c LEFT JOIN Enrollments e ON c.course_id = e.course_id WHERE e.enrollment_id IS NULL;	1 row(s) returned	0.000 sec / 0.000 sec
67	11:13:04	SELECT s.first_name, s.last_name FROM Students s JOIN Enrollments e1 ON s.student_id = e1.student_id AND e1.enrollment_id <> e2.enrollment_id;	10 row(s) returned	0.015 sec / 0.000 sec

Object Info Session

Result Grid Form Editor Field Types

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQLEditTableImportExportSQLScript

Navigator

SCHEMAS

Filter objects

- college
- hmbank
 - Tables
 - Views
 - Stored Procedures
 - Functions
- petpalsdb
- sakila
- sisdb
 - Tables

Administration Schemas

No object selected

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

first_name	last_name
Professor	Smita
Professor	Yogesh
Professor	Rahul
Professor	Katkar
Professor	Patkar

Result 12 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
67	11:13:04	SELECT s.first_name, s.last_name FROM Students s JOIN Enrollments e1 ON s.student_id = e1.student_id AND e1.enrollment_id <> e2.enrollment_id;	10 row(s) returned	0.015 sec / 0.000 sec
68	11:13:16	SELECT t.first_name, t.last_name FROM Teacher t LEFT JOIN Courses c ON t.teacher_id = c.teacher_id WHERE c.course_id IS NULL;	5 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Result Grid Form Editor Field Types

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQLEdit Schema Browser Database Browser SQL Editor

Navigator

SCHEMAS

Filter objects

- college
- hmbank
 - Tables
 - Views
 - Stored Procedures
 - Functions
- petpalsdb
- sakila
- sisdb
 - Tables

Administration Schemas

No object selected

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

course_id	avg_students_enrolled
2	1.0000
3	1.0000
4	1.0000
5	1.0000
6	1.0000
7	1.0000
8	1.0000
9	1.0000
10	1.0000

Result 13 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
68	11:13:16	SELECT t.first_name, t.last_name FROM Teacher t LEFT JOIN Courses c ON t.teacher_id = c.teacher_id	5 row(s) returned	0.000 sec / 0.000 sec
69	11:21:08	SELECT course_id, AVG(enrollment_count) AS avg_students_enrolled FROM (SELECT course_id, COUNT(student_id) AS enrollment_count FROM Enrollments GROUP BY course_id)	9 row(s) returned	0.015 sec / 0.000 sec

Object Info Session

Result Grid Form Editor Field Types

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQLEdit Schema Browser Database Object Navigator

hex 3(2) HEX2* python sql 1 python sql 2 sql 1

Limit to 1000 rows

Filter objects

SCHEMAS

- college
- hmbank
 - Tables
 - Views
 - Stored Procedures
 - Functions
- petpalsdb
- sakila
- sisdb
 - Tables

Administration Schemas

Information

No object selected

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

	student_id	first_name	last_name
>	1	Sid	Mundhe
*	NULL	NULL	NULL

Result Grid

Form Editor

Field Types

Students 14 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
69	11:21:08	SELECT course_id, AVG(enrollment_count) AS avg_students_enrolled FROM (S... 9 row(s) returned		0.015 sec / 0.000 sec
70	11:21:32	SELECT student_id, first_name, last_name FROM Students WHERE student_id = (...) 1 row(s) returned		0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Schemas

Filter objects

- college
- hmbank
 - Tables
 - Views
 - Stored Procedures
 - Functions
- petpalsdb
- sakila
- sisdb
 - Tables

Administration Schemas

No object selected

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

teacher_id	total_payments
1	1400.00
2	3520.00
3	1580.00
4	950.00
5	500.00

Result 15 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
74	11:23:37	SELECT teacher_id, SUM(amount) AS total_payments FROM (SELECT teacher... Error Code: 1054. Unknown column 'Payments.course_id' in 'on clause'	0.000 sec
75	11:25:18	SELECT teacher_id, SUM(amount) AS total_payments FROM (SELECT teacher... 5 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQLEdit Schema Browser Database Object Navigator

hex 3(2) HEX2* python sql 1 python sql 2 sql 1

Limit to 1000 rows

Filter objects

SCHEMAS

- college
- hmbank
 - Tables
 - Views
 - Stored Procedures
 - Functions
- petpalsdb
- sakila
- sisdb
 - Tables

Administration Schemas

Information

No object selected

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

student_id	first_name	last_name
*	NULL	NULL

Result Grid Form Editor Field Types

Students 16 x

Action Output

#	Time	Action	Message	Duration / Fetch
75	11:25:18	SELECT teacher_id, SUM(amount) AS total_payments FROM (SELECT teacher...	5 row(s) returned	0.000 sec / 0.000 sec
76	11:25:46	SELECT student_id, first_name, last_name FROM Students WHERE (SELECT CO...	0 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQLEdit Schema View Table Procedure Function

Navigator

SCHEMAS

Filter objects

- college
- hmbank
 - Tables
 - Views
 - Stored Procedures
 - Functions
- petpalsdb
- sakila
- sisdb
 - Tables

Administration Schemas

No object selected

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

teacher_id	first_name	last_name
6	Professor	Smita
7	Professor	Yogesh
8	Professor	Rahul
9	Professor	Katkar
10	Professor	Patkar
*	NULL	NULL

Form Editor

Field Types

Teacher 17 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
76	11:25:46	SELECT student_id, first_name, last_name FROM Students WHERE (SELECT CO...	0 row(s) returned	0.000 sec / 0.000 sec
77	11:26:16	SELECT teacher_id, first_name, last_name FROM Teacher WHERE teacher_id N...	5 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQLEditTableImportExportScriptingSQL

Navigator

SCHEMAS

Filter objects

college

hmbank

Tables

Views

Stored Procedures

Functions

petpalsdb

sakila

sisdb

Tables

Administration Schemas

Information

No object selected

hex 3(2) HEX2* python sql 1 python sql 2 sql 1

/*7. Calculate the average age of all students.

Use subqueries to calculate the age of each student based on their date of birth. */

SELECT AVG(age) AS average_age

FROM (

SELECT DATEDIFF(CURDATE(), date_of_birth) / 365 AS age

FROM Students

) AS subquery;

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

average_age
34.55143213

Result 18 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
77	11:26:16	SELECT teacher_id, first_name, last_name FROM Teacher WHERE teacher_id N...	5 row(s) returned	0.000 sec / 0.000 sec
78	11:26:28	SELECT AVG(age) AS average_age FROM (SELECT DATEDIFF(CURDATE(), ...	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Result Grid Form Editor Field Types

Read Only

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

SQLEditTableImportExportFindReplace

Navigator

SCHEMAS

Filter objects

- college
- hmbank
 - Tables
 - Views
 - Stored Procedures
 - Functions
- petpalsdb
- sakila
- sisdb
 - Tables

Administration Schemas

Information

No object selected

hex 3(2) HEX2* python sql 1 python sql 2 sql 1

307
308 /*8. Identify courses with no enrollments.
309 Use subqueries to find courses without enrollment records. */
310
311 • SELECT course_id, course_name
312 FROM Courses
313 WHERE course_id NOT IN (SELECT DISTINCT course_id FROM Enrollments);
314

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

course_id	course_name
1	Introduction to Programming
*	NULL

Courses 19 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
78	11:26:28	SELECT AVG(age) AS average_age FROM (SELECT DATEDIFF(CURDATE(), ... 1 row(s) returned	0.000 sec / 0.000 sec
79	11:27:00	SELECT course_id, course_name FROM Courses WHERE course_id NOT IN (SEL...	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Result Grid Form Editor Field Types

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQLEdit Schema Browser Database Object Navigator

hex 3(2) HEX2* python sql 1 python sql 2 sql 1

Navigator

SCHEMAS

Filter objects

college

hmbank

Tables

Views

Stored Procedures

Functions

petpalsdb

sakila

sisdb

Tables

Administration Schemas

Information

No object selected

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

student_id	first_name	last_name
*	NULL	NULL

Form Editor

Field Types

Students 20 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
80	11:27:20	SELECT student_id, course_id, SUM(amount) AS total_payments FROM Payments ...	Error Code: 1054. Unknown column 'course_id' in 'field list'	0.000 sec
81	11:27:50	SELECT student_id, first_name, last_name FROM Students WHERE student_id IN ...	0 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQLEditTableScriptingSQL

Navigator

SCHEMAS

Filter objects

college

hmbank

Tables

Views

Stored Procedures

Functions

petpalsdb

sakila

sisdb

Tables

Administration Schemas

No object selected

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

course_id	course_name	enrolled_students_count
1	Introduction to Programming	0
2	Database Management	1
3	Web Development Fundamentals	1
4	Data Structures and Algorithms	1
5	Database Design and Implementation	1
6	Introduction to Artificial Intelligence	1
7	Network Security Principles	1
8	Software Engineering Practices	1
9	Mobile App Development	1
10	Cloud Computing Fundamentals	1

Result 21 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
83	11:28:53	SELECT student_id, first_name, last_name, SUM(amount) AS total_payments FRO...	Error Code: 1052. Column 'student_id' in field list is ambiguous	0.000 sec
84	11:29:15	SELECT Courses.course_id, course_name, COUNT(student_id) AS enrolled_stude...	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Result Grid Form Editor Field Types

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQLEditTableImportExportScriptingSQL Navigator

hex 3(2) HEX2* python sql 1 python sql 2 sql 1

Filter objects

SCHEMAS

- college
- hmbank
 - Tables
 - Views
 - Stored Procedures
 - Functions
- petpalsdb
- sakila
- sisdb
 - Tables

Administration Schemas

Information

No object selected

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

average_payment_amount
795.000000

Result 22 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
84	11:29:15	SELECT Courses.course_id, course_name, COUNT(student_id) AS enrolled_stude...	10 row(s) returned	0.000 sec / 0.000 sec
85	11:29:39	SELECT AVG(amount) AS average_payment_amount FROM Payments LIMIT 0, 10...	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Result Grid Form Editor Field Types

Read Only