

firstly create the database -:

```
1  -- firstly create the database
2
3  • create database join2;
```

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

Context Help Snippets

Output

#	Time	Action	Message	Duration / Fetch
1	10:22:40	create database join2	1 row(s) affected	0.063 sec

use the join2 database -:

```
5  -- use the join2 database
6
7  • use join2;
```

Context Help Snippets

Output

#	Time	Action	Message	Duration / Fetch
1	10:22:40	create database join2	1 row(s) affected	0.063 sec
2	10:24:34	use join2	0 row(s) affected	0.031 sec

create the table students -:

```
9  -- create the table students
10
11  • CREATE TABLE students(
12    student_id INT PRIMARY KEY,
13    name VARCHAR(50),
14    course_id INT
15  );
```

Context Help Snippets

Output

#	Time	Action	Message	Duration / Fetch
1	10:22:40	create database join2	1 row(s) affected	0.063 sec
2	10:24:34	use join2	0 row(s) affected	0.031 sec
3	10:32:08	CREATE TABLE students( student_id INT PRIMARY KEY, name VARCHAR(50), course_id INT )	0 row(s) affected	0.156 sec

create the table courses -:

```
--
17
18  -- create the table courses
19
20  • CREATE TABLE courses(
21    course_id INT PRIMARY KEY,
22    course_name VARCHAR(50)
23  );
```

Context Help Snippets

Output

#	Time	Action	Message	Duration / Fetch
1	10:22:40	create database join2	1 row(s) affected	0.063 sec
2	10:24:34	use join2	0 row(s) affected	0.031 sec
3	10:32:08	CREATE TABLE students( student_id INT PRIMARY KEY, name VARCHAR(50), course_id INT )	0 row(s) affected	0.156 sec
4	10:36:06	CREATE TABLE courses( course_id INT PRIMARY KEY, course_name VARCHAR(50) )	0 row(s) affected	0.047 sec

create the table pyments -:

```
--
26  -- create the table pyments
27
28  CREATE TABLE pyments(
29    pyment_id INT PRIMARY KEY,
30    student_id INT,
31    amount INT
32  );
33
```

Output

#	Time	Action	Message	Duration / Fetch
1	10:22:40	create database join2	1 row(s) affected	0.063 sec
2	10:24:34	use join2	0 row(s) affected	0.031 sec
3	10:32:08	CREATE TABLE students( student_id INT PRIMARY KEY, name VARCHAR(50), course_id INT )	0 row(s) affected	0.156 sec
4	10:36:06	CREATE TABLE courses( course_id INT PRIMARY KEY, course_name VARCHAR(50) )	0 row(s) affected	0.047 sec
5	10:48:35	CREATE TABLE pyments( pyment_id INT PRIMARY KEY, student_id INT, amount INT )	0 row(s) affected	0.031 sec

show all the tables in the databases join2 -:

```
34
35  -- show all the tables in the databases join2
36
37  SHOW TABLES;
```

Result Grid

Tables_in_join2
courses
pyments
students

Output

#	Time	Action	Message	Duration / Fetch
3	10:32:08	CREATE TABLE students( student_id INT PRIMARY KEY, name VARCHAR(50), course_id INT )	0 row(s) affected	0.156 sec
4	10:36:06	CREATE TABLE courses( course_id INT PRIMARY KEY, course_name VARCHAR(50) )	0 row(s) affected	0.047 sec
5	10:48:35	CREATE TABLE pyments( pyment_id INT PRIMARY KEY, student_id INT, amount INT )	0 row(s) affected	0.031 sec
6	10:50:05	SHOW TABLES	3 row(s) returned	0.015 sec / 0.000 sec

insert values into students table -:

```
39
40  -- insert values into students table
41
42  INSERT INTO students VALUES
43    (1,"Swapnil",101),
44    (2,"Vijay",102),
45    (3,"Ram",101),
46    (4,"Seeta",NULL),
47    (5,"Angel",NULL),
48    (6,"Geeta",NULL);
49
```

Output

#	Time	Action	Message	Duration / Fetch
7	10:54:58	INSERT INTO students values (1,"Amit",101), (1,"Amit",101), (1,"Amit",101),	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se...	0.000 sec
8	10:58:06	INSERT INTO students VALUES (1,"Swapnil",101), (2,"Vijay",102), (3,"Ram",101), (4,"Seeta",NULL), (5,"An...	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.031 sec

insert values into courses table -:

```
50
51 -- insert values into courses table
52
53 • INSERT INTO courses VALUES
54 (101,"Data Science"),
55 (102,"Machine Learning"),
56 (103,"Data Analytics");
```

Output

#	Time	Action	Message	Duration / Fetch
8	10:58:06	INSERT INTO students VALUES (1,"Swapnil",101), (2,"Vijay",102), (3,"Ram",101), (4,"Seeta",NULL), (5,"An...)	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.031 sec
9	11:02:03	INSERT INTO courses VALUES (101,"Data Science"), (102,"Machine Learning"), (103,"Data Analytics")	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0	0.016 sec

insert values into pyments table -:

```
58
59 -- insert values into pyments table
60
61 • INSERT INTO pyments VALUES
62 (1,1,5000),
63 (2,2,6000),
64 (3,1,2000);
```

Output

#	Time	Action	Message	Duration / Fetch
9	11:02:03	INSERT INTO courses VALUES (101,"Data Science"), (102,"Machine Learning"), (103,"Data Analytics")	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0	0.016 sec
10	11:05:58	INSERT INTO pyments VALUES (1,1,5000), (2,2,6000), (3,1,2000)	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0	0.016 sec

select all value from table students -:

```
66 -- select all value from table students
67
68 • select * from students;
```

Result Grid

student_id	name	course_id
1	Swapnil	101
2	Vijay	102
3	Ram	101
4	Seeta	1023
5	Angel	1023

students 2 x

Output

#	Time	Action	Message	Duration / Fetch
10	11:05:58	INSERT INTO pyments VALUES (1,1,5000), (2,2,6000), (3,1,2000)	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0	0.016 sec
11	11:12:17	select * from students LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec

select all value from table courses -:

```
71 -- select all value from table courses
72
73 • select * from courses;
```

Result Grid

course_id	course_name
101	Data Science
102	Machine Learning
103	Data Analytics

courses 3 x

Output

#	Time	Action	Message	Duration / Fetch
11	11:12:17	select * from students LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
12	11:12:57	select * from courses LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec

select all valuse from table pyments -:

```
--
76 -- select all valuse from table pyments
77
78 • SELECT * FROM courses;
```

Result Grid

course_id	course_name
101	Data Science
102	Machine Learning
103	Data Analytics

courses 4

Output

Action Output

#	Time	Action	Message	Duration / Fetch
12	11:12:57	select * from courses LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
13	11:14:29	SELECT * FROM courses LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec

Join/inner join -:

```
80
81 -- now joins
82 -- join is also called inner join
83 -- it gives only matching condition
84 -- join
85 • SELECT s.name , c.course_name
86 from students as s
87 join courses as c on s.course_id = c.course_id;
```

Result Grid

name	course_name
Swagnil	Data Science
Vijay	Machine Learning
Ram	Data Science

Result 5

Output

Action Output

#	Time	Action	Message	Duration / Fetch
13	11:14:29	SELECT * FROM courses LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
14	11:20:45	SELECT s.name , c.course_name from students as s join courses as c on s.course_id = c.course_id LIMIT 0, ...	3 row(s) returned	0.000 sec / 0.000 sec

Right join - All from right table and left table value not then use null -:

```
89
90 -- Right join - All from right table and left table value not then use null
91
92 • SELECT s.name , c.course_name
93 FROM students AS s
94 RIGHT JOIN courses AS c ON s.course_id = c.course_id;
```

Result Grid

name	course_name
Ram	Data Science
Swagnil	Data Science
Vijay	Machine Learning
DATA	Data Analytics

Result 6

Output

Action Output

#	Time	Action	Message	Duration / Fetch
14	11:20:45	SELECT s.name , c.course_name from students as s join courses as c on s.course_id = c.course_id LIMIT 0, ...	3 row(s) returned	0.000 sec / 0.000 sec
15	11:24:20	SELECT s.name , c.course_name FROM students AS s RIGHT JOIN courses AS c ON s.course_id = c.cours...	4 row(s) returned	0.000 sec / 0.000 sec

```

97 -- Right join - All from right table and left table value not then use null
98
99 • SELECT c.course_name , s.name
100 FROM students AS s
101 RIGHT JOIN courses AS c ON s.course_id = c.course_id;
102

```

Result Grid

course_name	name
Data Science	Ram
Data Science	Swapnil
Machine Learning	Vijay
Data Analytics	

Result 7 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
15	11:24:20	SELECT s.name , c.course_name FROM students AS s RIGHT JOIN courses AS c ON s.course_id = c.course_id	4 row(s) returned	0.000 sec / 0.000 sec
16	11:29:42	SELECT c.course_name , s.name FROM students AS s RIGHT JOIN courses AS c ON s.course_id = c.course_id	4 row(s) returned	0.000 sec / 0.000 sec

Left join - All selected column from left table and right side table value not then use null:-

```

104
105 -- Left join - All selected column from left table and right side table value not then use null
106
107 • SELECT s.name , c.course_name
108 FROM students AS s
109 LEFT JOIN courses AS c ON s.course_id = c.course_id;
110

```

Result Grid

name	course_name
Swapnil	Data Science
Vijay	Machine Learning
Ram	Data Science
Seeta	
Angel	
Geeta	

Result 9 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
18	11:36:16	SELECT s.name , p.amount FROM students AS s LEFT JOIN payments AS p ON s.student_id = p.student_id	0 row(s) returned	0.015 sec / 0.000 sec
19	11:38:42	SELECT s.name , c.course_name FROM students AS s LEFT JOIN courses AS c ON s.course_id = c.course_id	6 row(s) returned	0.000 sec / 0.000 sec

full Outer join = combine the left + right join -:

```

112 -- full join = combine the left + right join
113
114 • SELECT s.name , c.course_name
115 FROM students AS s
116 LEFT JOIN courses AS c ON s.course_id = c.course_id
117
118 UNION
119
120 SELECT c.course_name , s.name
121 FROM students AS s
122 RIGHT JOIN courses AS c ON s.course_id = c.course_id;
123

```

Result Grid

name	course_name
Swapnil	Data Science
Vijay	Machine Learning
Ram	Data Science
Seeta	
Angel	
Geeta	
Data Science	Ram
Data Science	Swapnil
Machine Learning	Vijay

Result 10 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
19	11:38:42	SELECT s.name , c.course_name FROM students AS s LEFT JOIN courses AS c ON s.course_id = c.course_id	6 row(s) returned	0.000 sec / 0.000 sec
20	11:49:31	SELECT s.name , c.course_name FROM students AS s LEFT JOIN courses AS c ON s.course_id = c.course_id	10 row(s) returned	0.016 sec / 0.000 sec

manually get help for the current caret position or to toggle automatic help.

i want those student we not paid amount -:

use left join -:

124  
125 -- i want those student we not paid ammount  
126 -- use left join  
127  
128 • SELECT s.name , p.ammount  
129 FROM students AS s  
130 LEFT JOIN pyments AS p ON s.student\_id = p.student\_id  
131 WHERE p.ammount is null;  
132

toggle automatic help.

Result Grid

	name	ammount
▶	Ram	0.000
	Secta	0.000
	Angel	0.000
	Geeta	0.000

Result 11 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
19	11:38:42	SELECT s.name , c.course_name FROM students AS s LEFT JOIN courses AS c ON s.course_id = c.course_id...	6 row(s) returned	0.000 sec / 0.000 sec
20	11:49:31	SELECT s.name , c.course_name FROM students AS s LEFT JOIN courses AS c ON s.course_id = c.course_id...	10 row(s) returned	0.016 sec / 0.000 sec
21	11:59:37	SELECT s.name , p.ammount FROM students AS s LEFT JOIN pyments AS p ON s.student_id = p.student_id...	Error Code: 1146. Table 'join2.pyments' doesn't exist	0.031 sec
22	12:00:08	SELECT s.name , p.ammount FROM students AS s LEFT JOIN pyments AS p ON s.student_id = p.student_id...	4 row(s) returned	0.000 sec / 0.000 sec