

## Course: SQL 101 – Satr

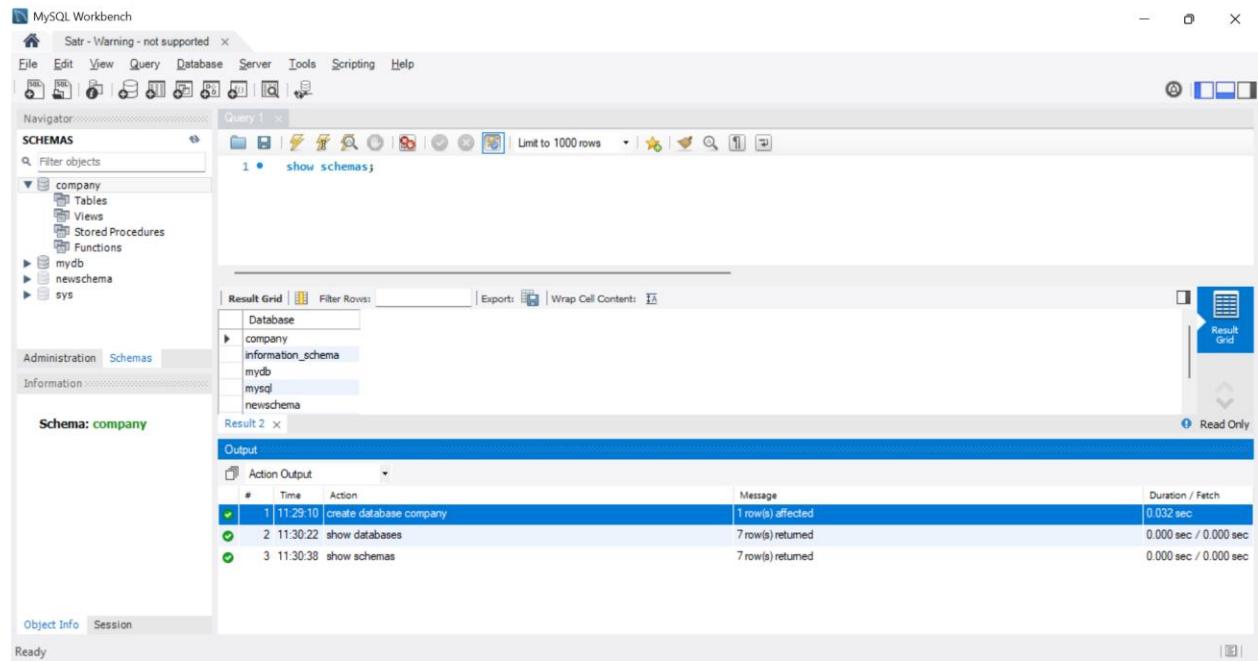
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Installed Wamp server and MySQL Workbench. ✓

Create a connection. ✓



Create and view database (company). ✓



Delete database. ✓

The screenshot shows the MySQL Workbench interface. In the Navigator pane, under SCHEMAS, there is a list of databases: mydb, newschema, and sys. The 'company' database is expanded, showing Tables, Views, Stored Procedures, and Functions. In the Query Editor (Query 1), the command `drop database company;` is entered. The Output pane displays the execution log:

#	Time	Action	Message	Duration / Fetch
1	11:29:10	create database company	1 row(s) affected	0.032 sec
2	11:30:22	show databases	7 row(s) returned	0.000 sec / 0.000 sec
3	11:30:38	show schemas	7 row(s) returned	0.000 sec / 0.000 sec
4	11:36:37	drop database company	0 row(s) affected	0.063 sec

Create company database. ✓

The screenshot shows the MySQL Workbench interface. In the Navigator pane, under SCHEMAS, the 'company' database is selected and expanded, showing Tables, Views, Stored Procedures, and Functions. Other databases listed are mydb, newschema, and sys. In the Query Editor (Query 1), the command `create database company;` is entered. The Output pane displays the execution log:

#	Time	Action	Message	Duration / Fetch
1	11:30:22	show databases	7 row(s) returned	0.000 sec / 0.000 sec
2	11:30:38	show schemas	7 row(s) returned	0.000 sec / 0.000 sec
3	11:36:37	drop database company	0 row(s) affected	0.063 sec
4	11:42:52	create database Employee	1 row(s) affected	0.047 sec
5	11:45:03	drop database employee	0 row(s) affected	0.000 sec
6	11:45:23	create database company	1 row(s) affected	0.047 sec

Create Employee table. ✓

MySQL Workbench

Satr - Warning - not supported ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

company

Tables

employee

Views

Stored Procedures

Functions

mydb

newschema

sys

Administration Schemas

Information

Table: employee

Columns:

<b>id</b>	int PK
Employee_name	varchar(225)
Employee_salary	int
Employee_bonus	int

Action Output

#	Time	Action	Message	Duration / Fetch
5	11:42:52	create database Employee	1 row(s) affected	0.047 sec
6	11:45:03	drop database employee	0 row(s) affected	0.000 sec
7	11:45:23	create database company	1 row(s) affected	0.047 sec
8	11:48:00	create table Employee(id int primary key, Employee_name varchar(225), Employee_salary int, Employee_bonus int);	Error Code: 1046. No database selected Select the default DB to be used by double quotes	0.000 sec
9	11:48:30	use company	0 row(s) affected	0.000 sec
10	11:48:30	create table Employee(id int primary key, Employee_name varchar(225), Employee_salary int, Employee_bonus int);	0 row(s) affected	0.078 sec

Object Info Session

Query Completed

Select columns from employee table. ✓

MySQL Workbench

Satr - Warning - not supported ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

company

Tables

employee

Columns

- id**
- Employee\_name
- Employee\_salary
- Employee\_bonus

Indexes

Foreign Keys

Triggers

Administration Schemas

Information

Table: employee

Columns:

<b>id</b>	int PK
Employee_name	varchar(225)
Employee_salary	int
Employee_bonus	int

Action Output

#	Time	Action	Message	Duration / Fetch
6	11:45:03	drop database employee	0 row(s) affected	0.000 sec
7	11:45:23	create database company	1 row(s) affected	0.047 sec
8	11:48:00	create table Employee(id int primary key, Employee_name varchar(225), Employee_salary int, Employee_bonus int);	Error Code: 1046. No database selected Select the default DB to be used by double quotes	0.000 sec
9	11:48:30	use company	0 row(s) affected	0.000 sec
10	11:48:30	create table Employee(id int primary key, Employee_name varchar(225), Employee_salary int, Employee_bonus int);	0 row(s) affected	0.078 sec
11	11:51:12	select id, Employee_name, Employee_salary, Employee_bonus from employee	0 row(s) returned	0.016 sec / 0.000 sec

Result Grid

employee 1 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
6	11:45:03	drop database employee	0 row(s) affected	0.000 sec
7	11:45:23	create database company	1 row(s) affected	0.047 sec
8	11:48:00	create table Employee(id int primary key, Employee_name varchar(225), Employee_salary int, Employee_bonus int);	Error Code: 1046. No database selected Select the default DB to be used by double quotes	0.000 sec
9	11:48:30	use company	0 row(s) affected	0.000 sec
10	11:48:30	create table Employee(id int primary key, Employee_name varchar(225), Employee_salary int, Employee_bonus int);	0 row(s) affected	0.078 sec
11	11:51:12	select id, Employee_name, Employee_salary, Employee_bonus from employee	0 row(s) returned	0.016 sec / 0.000 sec

Object Info Session

Query Completed

Show columns details. ✓

MySQL Workbench

Satr - Warning - not supported ×

File Edit View Query Database Server Tools Scripting Help

Navigator

**SCHEMAS**

company

Tables

employee

Columns

id Employee\_name Employee\_salary Employee\_bonus

Indexes Foreign Keys Triggers

Administration Schemas Information

Table: employee

Columns:

<b>id</b>	int PK
Employee_name	varchar(225)
Employee_salary	int
Employee_bonus	int

Object Info Session

Query Completed

SQL File 1\* ×

```
1 use company;
2 * show columns
3 from employee;
```

Result Grid | Filter Rows: Export: Wrap Cell Content: 15

Field	Type	Null	Key	Default	Extra
<b>id</b>	int	NO	PRI	NULL	
Employee_name	varchar(225)	YES	NULL		
Employee_salary	int	YES	NULL		
Employee_bonus	int	YES	NULL		

Result 4 ×

Action Output

#	Time	Action	Message	Duration / Fetch
9	11:48:30	use company	0 row(s) affected	0.000 sec
10	11:48:30	create table Employee(id int primary key, Employee_name varchar(225), Employee_salary int, Employee_bonus int)	0 row(s) affected	0.078 sec
11	11:51:12	select id, Employee_name, Employee_salary, Employee_bonus from employee LIMIT 0, 1000	0 row(s) returned	0.016 sec / 0.000 sec
12	11:52:27	select * from employee LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
13	11:52:50	select Employee_name from employee LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
14	11:53:43	show columns from employee	4 row(s) returned	0.000 sec / 0.000 sec

Read Only

Add new column to existing table. ✓

MySQL Workbench

Satr - Warning - not supported ×

File Edit View Query Database Server Tools Scripting Help

Navigator

**SCHEMAS**

company

Tables

employee

Columns

id Employee\_name Employee\_salary Employee\_bonus Employee\_email

Indexes Foreign Keys

Administration Schemas Information

Column: Employee\_email

Collation: utf8mb4\_0900\_ai\_ci

Definition: Employee\_email varchar(225)

Object Info Session

Query Completed

SQL File 1\* ×

```
1 use company;
2 * alter table employee
3 add Employee_email varchar(225);
```

Action Output

#	Time	Action	Message	Duration / Fetch
10	11:48:30	create table Employee(id int primary key, Employee_name varchar(225), Employee_salary int, Employee_bonus int)	0 row(s) affected	0.078 sec
11	11:51:12	select id, Employee_name, Employee_salary, Employee_bonus from employee LIMIT 0, 1000	0 row(s) returned	0.016 sec / 0.000 sec
12	11:52:27	select * from employee LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
13	11:52:50	select Employee_name from employee LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
14	11:53:43	show columns from employee	4 row(s) returned	0.000 sec / 0.000 sec
15	11:57:50	alter table employee add Employee_email varchar(225)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.046 sec

Modify column data type. ✓

MySQL Workbench

Satr - Warning - not supported

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

company

Tables

employee

Columns

id Employee\_name Employee\_salary Employee\_bonus Employee\_email

Indexes Foreign Keys

Administration Schemas

Information

Column: id

Collation: utf8mb4\_0900\_a\_ci

Definition: char(225) PK

Action Output

#	Time	Action	Message	Duration / Fetch
11	11:51:12	select id, Employee_name, Employee_salary, Employee_bonus from employee U...	0 row(s) returned	0.016 sec / 0.000 sec
12	11:52:27	select * from employee LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
13	11:52:50	select Employee_name from employee LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
14	11:53:43	show column from employee	4 row(s) returned	0.000 sec / 0.000 sec
15	11:57:50	alter table employee add Employee_email varchar(225)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.046 sec
16	12:00:20	alter table employee modify column id char(225)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.125 sec

Object Info Session

Query Completed

Drop column. ✓

MySQL Workbench

Satr - Warning - not supported

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

company

Tables

employee

Columns

id Employee\_name Employee\_salary Employee\_bonus

Indexes Foreign Keys Triggers

Administration Schemas

Information

Table: employee

Columns:

id	char(225)	PK	
Employee_name	varchar(225)		
Employee_salary	int		
Employee_bonus	int		

Action Output

#	Time	Action	Message	Duration / Fetch
12	11:52:27	select * from employee LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
13	11:52:50	select Employee_name from employee LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
14	11:53:43	show column from employee	4 row(s) returned	0.000 sec / 0.000 sec
15	11:57:50	alter table employee add Employee_email varchar(225)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.046 sec
16	12:00:20	alter table employee modify column id char(225)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.125 sec
17	12:03:56	alter table employee drop column Employee_email	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.062 sec

Object Info Session

Query Completed

Show all tables in database. ✓

MySQL Workbench

Satr - Warning - not supported ×

File Edit View Query Database Server Tools Scripting Help

Navigator

**SCHEMAS**

- company
  - Tables
    - employee
    - project
  - Views
  - Stored Procedures
  - Functions
- mydb
- newschema
- sys

Administration Schemas

Information

**Table: employee**

Columns:

<b>id</b>	char(225)	PK
Employee_name	varchar(225)	
Employee_salary	int	
Employee_bonus	int	

Object Info Session

Query Completed

SQL File 1\* ×

```
1 use company;
2 show tables;
```

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

Tables\_in\_company

employee  
project

Result 6 ×

Action Output

#	Time	Action	Message	Duration / Fetch
16	12:00:20	alter table employee modify column id char(225)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.125 sec
17	12:03:56	alter table employee drop column Employee_email	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.062 sec
18	12:05:22	show tables	1 row(s) returned	0.000 sec / 0.000 sec
19	12:05:53	create table project	Error Code: 4028. A table must have at least one visible column.	0.047 sec
20	12:06:46	create table project(id int primary key )	0 row(s) affected	0.063 sec
21	12:07:03	show tables	2 row(s) returned	0.000 sec / 0.000 sec

Read Only

Rename table. ✓

MySQL Workbench

Satr - Warning - not supported ×

File Edit View Query Database Server Tools Scripting Help

Navigator

**SCHEMAS**

- company
  - Tables
    - employee
    - lastproject
  - Views
  - Stored Procedures
  - Functions
- mydb
- newschema
- sys

Administration Schemas

Information

**Table: lastproject**

Columns:

<b>id</b>	int PK	

Object Info Session

Query Completed

SQL File 1\* ×

```
1 use company;
2 alter table project
3 rename to lastProject;
```

Action Output

#	Time	Action	Message	Duration / Fetch
17	12:03:56	alter table employee drop column Employee_email	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.062 sec
18	12:05:22	show tables	1 row(s) returned	0.000 sec / 0.000 sec
19	12:05:53	create table project	Error Code: 4028. A table must have at least one visible column.	0.047 sec
20	12:06:46	create table project(id int primary key )	0 row(s) affected	0.063 sec
21	12:07:03	show tables	2 row(s) returned	0.000 sec / 0.000 sec
22	12:08:33	alter table project rename to lastProject	0 row(s) affected	0.062 sec

Drop table. ✓

MySQL Workbench

Satr - Warning - not supported ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

- company
  - Tables
  - Views
  - Stored Procedures
  - Functions
- mydb
- newschema
- sys

Administration Schemas

No object selected

Information

Object Info Session

Query Completed

```
SQL File 1* ×
1 use company;
2 drop table lastProject;
```

Action Output

#	Time	Action	Message	Duration / Fetch
18	12:05:22	show tables	1 row(s) returned	0.000 sec / 0.000 sec
19	12:05:53	create table project	Error Code: 4028. A table must have at least one visible column.	0.047 sec
20	12:06:46	create table project(id int primary key )	0 row(s) affected	0.063 sec
21	12:07:03	show tables	2 row(s) returned	0.000 sec / 0.000 sec
22	12:08:33	alter table project rename to lastProject	0 row(s) affected	0.062 sec
23	12:09:37	drop table lastProject	0 row(s) affected	0.062 sec

Insert new row into table. ✓

MySQL Workbench

Satr - Warning - not supported ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

- company
  - Tables
    - employee
      - Columns
      - Indexes
      - Foreign Keys
      - Triggers

Administration Schemas

Information

Table: employee

Columns:

	Type	PK	
<b>id</b>	char(225)	PK	
Employee_name	varchar(225)		
Employee_salary	int		
Employee_bonus	int		

Object Info Session

Query Completed

```
SQL File 1* ×
1 use company;
2 insert into employee (id, Employee_name, Employee_salary, Employee_bonus)
3 values (1, "Ahmad", 5000, 1500);
4 select * from employee;
```

Result Grid

	id	Employee_name	Employee_salary	Employee_bonus
1	Ahmad	5000	1500	
2				

employee 7 ×

Action Output

#	Time	Action	Message	Duration / Fetch
21	12:07:03	show tables	2 row(s) returned	0.000 sec / 0.000 sec
22	12:08:33	alter table project rename to lastProject	0 row(s) affected	0.062 sec
23	12:09:37	drop table lastProject	0 row(s) affected	0.062 sec
24	16:10:08	use company	0 row(s) affected	0.016 sec
25	16:10:08	insert into employee (id, Employee_name, Employee_salary, Employee_bonus) v...	1 row(s) affected	0.015 sec
26	16:10:08	select * from employee LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

Insert another row into table. ✓

MySQL Workbench

Satr - Warning - not supported ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

company

Tables

employee

Columns

id Employee\_name Employee\_salary Employee\_bonus

Indexes Foreign Keys Triggers

Administration Schemas

Information

Table: employee

Columns:

<b>id</b>	char(225)
<b>Employee_name</b>	PK
Employee_salary	varchar(225)
Employee_bonus	int

Action Output

#	Time	Action	Message	Duration / Fetch
24	16:10:08	use company	0 row(s) affected	0.016 sec
25	16:10:08	insert into employee (id, Employee_name, Employee_salary, Employee_bonus) values (2, "Ali", 5500, 1500)	1 row(s) affected	0.015 sec
26	16:10:08	select * from employee LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
27	16:12:03	use company	0 row(s) affected	0.000 sec
28	16:12:03	insert into employee (id, Employee_name, Employee_salary, Employee_bonus) values (3, "Sarah", 5500, 1500)	1 row(s) affected	0.016 sec
29	16:12:03	select * from employee LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

Result Grid

	<b>id</b>	<b>Employee_name</b>	<b>Employee_salary</b>	<b>Employee_bonus</b>
1	Ahmad	5000	1500	
2	Ali	5500	1500	
*	HULL	HULL	HULL	HULL

Object Info Session

Query Completed

Insert row with missing value into table. ✓

MySQL Workbench

Satr - Warning - not supported ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

company

Tables

employee

Columns

id Employee\_name Employee\_salary Employee\_bonus

Indexes Foreign Keys Triggers

Administration Schemas

Information

Table: employee

Columns:

<b>id</b>	char(225)
<b>Employee_name</b>	PK
Employee_salary	varchar(225)
Employee_bonus	int

Action Output

#	Time	Action	Message	Duration / Fetch
27	16:12:03	use company	0 row(s) affected	0.000 sec
28	16:12:03	insert into employee (id, Employee_name, Employee_salary, Employee_bonus) values (3, "Sarah", 5500, 1500)	1 row(s) affected	0.016 sec
29	16:12:03	select * from employee LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
30	16:13:12	use company	0 row(s) affected	0.000 sec
31	16:13:12	insert into employee (id, Employee_name, Employee_salary) values (3, "Sarah", 5500)	1 row(s) affected	0.047 sec
32	16:13:12	select * from employee LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec

Result Grid

	<b>id</b>	<b>Employee_name</b>	<b>Employee_salary</b>	<b>Employee_bonus</b>
1	Ahmad	5000	1500	
2	Ali	5500	1500	
3	Sarah	5500		
*	HULL	HULL	HULL	HULL

Object Info Session

Query Completed

Insert multiple rows into table. ✓

MySQL Workbench

Satr - Warning - not supported ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

company

Tables

employee

Columns

id Employee\_name Employee\_salary Employee\_bonus

Indexes Foreign Keys Triggers

Administration Schemas

Information

Table: employee

Columns:

<b>id</b>	char(225)
Employee_name	PK
Employee_salary	varchar(225)
Employee_bonus	int

Object Info Session

Query Completed

SQL File 1\* ×

```

1 use company;
2 • insert into employee
3 values (4, "Nora", 5000, 2000), (5, "Nasser", 5500, 1500), (6, "Abdullah", 6000, 1000);
4 • select * from employee;

```

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

	<b>id</b>	Employee_name	Employee_salary	Employee_bonus
▶	1	Ahmad	5000	1500
2	Ali	5500	1500	
3	Sarah	5500		
4	Nora	5000	2000	
5	Nasser	5500	1500	
6	Abdullah	6000	1000	

employee 10 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
32	16:13:12	select * from employee LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
33	16:17:16	use company	0 row(s) affected	0.000 sec
34	16:17:16	insert into employee values (4, "Nora", 5000, 2000), (5, "Nasser", 5500, 1500), (6, "Abdullah", 6000, 1000);	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0	0.032 sec
35	16:17:16	select * from employee LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec

Result Grid | Form Editor |

Show specific rows using Where. ✓

MySQL Workbench

Satr - Warning - not supported ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

company

Tables

employee

Columns

id Employee\_name Employee\_salary Employee\_bonus

Indexes Foreign Keys Triggers

Administration Schemas

Information

Table: employee

Columns:

<b>id</b>	char(225)
Employee_name	PK
Employee_salary	varchar(225)
Employee_bonus	int

Object Info Session

Query Completed

SQL File 1\* ×

```

1 use company;
2 • select * from employee where Employee_name="Ahmad";

```

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

	<b>id</b>	Employee_name	Employee_salary	Employee_bonus
▶	1	Ahmad	5000	1500
*	NULL	NULL	NULL	NULL

employee 11 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
34	16:17:16	insert into employee values (4, "Nora", 5000, 2000), (5, "Nasser", 5500, 1500), (6, "Abdullah", 6000, 1000);	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0	0.032 sec
35	16:17:16	select * from employee LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
36	16:19:55	use company	0 row(s) affected	0.000 sec
37	16:19:55	select * from employee where Employee_name="Ahmad" LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

Result Grid | Form Editor |

MySQL Workbench

Satr - Warning - not supported ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

company

Tables

employee

Columns

id Employee\_name Employee\_salary Employee\_bonus

Indexes Foreign Keys Triggers

Administration Schemas Information

Table: employee

Columns:

<b>id</b>	char(225)
Employee_name	PK
Employee_salary	varchar(225)
Employee_bonus	int

Object Info Session

Query Completed

SQL File 1\* ×

```
1 use company;
2 * select * from employee where Employee_salary=5000;
```

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

	id	Employee_name	Employee_salary	Employee_bonus
▶	1	Ahmad	5000	1500
▶	4	Nora	5000	2000
●	HULL	HULL	HULL	HULL

employee 12 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
36	16:19:55	use company	0 row(s) affected	0.000 sec
37	16:19:55	select * from employee where Employee_name="Ahmad" LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
38	16:20:30	use company	0 row(s) affected	0.000 sec
39	16:20:30	select * from employee where Employee_salary=5000 LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

Result Grid Form Editor

MySQL Workbench

Satr - Warning - not supported ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

company

Tables

employee

Columns

id Employee\_name Employee\_salary Employee\_bonus

Indexes Foreign Keys Triggers

Administration Schemas Information

Table: employee

Columns:

<b>id</b>	char(225)
Employee_name	PK
Employee_salary	varchar(225)
Employee_bonus	int

Object Info Session

Query Completed

SQL File 1\* ×

```
1 use company;
2 * select * from employee where Employee_salary>5000;
```

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

	id	Employee_name	Employee_salary	Employee_bonus
▶	2	Ali	5500	1500
▶	3	Sarah	5500	HULL
▶	5	Nasser	5500	1500
▶	6	Abdullah	6000	1000
●	HULL	HULL	HULL	HULL

employee 13 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
38	16:20:30	use company	0 row(s) affected	0.000 sec
39	16:20:30	select * from employee where Employee_salary>5000 LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
40	16:21:24	use company	0 row(s) affected	0.000 sec
41	16:21:24	select * from employee where Employee_salary>5000 LIMIT 0, 1000	4 row(s) returned	0.047 sec / 0.000 sec

Result Grid Form Editor

Update values in table. ✓

MySQL Workbench

Satr - Warning - not supported

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

- company
  - Tables
  - Views
  - Stored Procedures
  - Functions
- mydb
- newschema

Administration Schemas

No object selected

Result Grid

	ID	Employee_name	Employee_salary	Employee_bonus
1	1	Ahmad	5000	1500
2	2	Ali	5500	1500
3	3	Sarah	5500	2000
4	4	Nora	5000	2000
5	5	Nasser	5500	1500
6	6	Abdullah	6000	1000
*	HULL	HULL	HULL	HULL

employee 1

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	16:26:34	use company	0 row(s) affected	0.000 sec
2	16:26:34	update employee set Employee_bonus = 2000 where id=3	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.047 sec
3	16:26:34	select * from employee LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Delete rows from table. ✓

MySQL Workbench

Satr - Warning - not supported

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

- company
  - Tables
  - Views
  - Stored Procedures
  - Functions
- mydb
- newschema

Administration Schemas

No object selected

Result Grid

	ID	Employee_name	Employee_salary	Employee_bonus
1	1	Ahmad	5000	1500
2	2	Ali	5500	1500
3	3	Sarah	5500	2000
4	4	Nora	5000	2000
5	5	Nasser	5500	1500
*	HULL	HULL	HULL	HULL

employee 2

Output

Action Output

#	Time	Action	Message	Duration / Fetch
3	16:26:34	select * from employee LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
4	16:28:22	use company	0 row(s) affected	0.000 sec
5	16:28:22	delete from employee where id = 6	1 row(s) affected	0.047 sec
6	16:28:22	select * from employee LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Satr - Warning - not supported ×

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

SCHEMAS

- company
  - Tables
  - Views
  - Stored Procedures
  - Functions
- mydb
- newschema

Administration Schemas

No object selected

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

	ID	Employee_name	Employee_salary	Employee_bonus
▶	1	Ahmad	5000	1500
	3	Sarah	5500	2000
	4	Nora	5000	2000
	5	Nasser	5500	1500
	• HULL	HULL	HULL	HULL

employee 3 ×

Output:

Action Output

#	Time	Action	Message	Duration / Fetch
6	16:28:22	select * from employee LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
7	16:29:17	use company	0 row(s) affected	0.000 sec
8	16:29:17	delete from employee where Employee_name = "Ali"	1 row(s) affected	0.047 sec
9	16:29:17	select * from employee LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Order table by name ascending and descending. ✓

MySQL Workbench

Satr - Warning - not supported ×

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

SCHEMAS

- company
  - Tables
  - Views
  - Stored Procedures
  - Functions
- mydb
- newschema

Administration Schemas

No object selected

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

	ID	Employee_name	Employee_salary	Employee_bonus
▶	1	Ahmad	5000	1500
	5	Nasser	5500	1500
	4	Nora	5000	2000
	3	Sarah	5500	2000
	• HULL	HULL	HULL	HULL

employee 4 ×

Output:

Action Output

#	Time	Action	Message	Duration / Fetch
8	16:29:17	delete from employee where Employee_name = "Ali"	1 row(s) affected	0.047 sec
9	16:29:17	select * from employee LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
10	16:31:11	use company	0 row(s) affected	0.000 sec
11	16:31:11	select * from employee order by Employee_name asc LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

The screenshot shows the MySQL Workbench interface. In the SQL editor, the following query is run:

```

1 • use company;
2 • select * from employee order by Employee_name desc;

```

The result grid displays the following data:

	ID	Employee_name	Employee_salary	Employee_bonus
3	3	Sarah	5500	2000
4	4	Nora	5000	2000
5	5	Nasser	5500	1500
1	1	Ahmad	5000	1500
*	HUML	HUML	HUML	HUML

The Action Output pane shows the following log entries:

#	Time	Action	Message	Duration / Fetch
10	16:31:11	use company	0 row(s) affected	0.000 sec
11	16:31:11	select * from employee order by Employee_name asc LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
12	16:31:56	use company	0 row(s) affected	0.000 sec
13	16:31:56	select * from employee order by Employee_name desc LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec

Group rows by selected column. ✓

The screenshot shows the MySQL Workbench interface. In the SQL editor, the following query is run:

```

1 • use company;
2 • select Employee_salary from employee group by Employee_salary;

```

The result grid displays the following data:

Employee_salary
5000
5500

The Action Output pane shows the following log entries:

#	Time	Action	Message	Duration / Fetch
14	16:33:12	use company	0 row(s) affected	0.000 sec
15	16:33:12	select Employee_salary from employee LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
16	16:33:36	use company	0 row(s) affected	0.000 sec
17	16:33:36	select Employee_salary from employee group by Employee_salary LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

Project:

باستخدام ماتعلمنه خلال هذه الدورة قم بتطبيق الآتي: لنفترض أن هناك مدرسة باسم التميز للتعليم الثانوي، ونريد إنشاء قاعدة بيانات مرکزية لتضم جميع معلومات المعلمین والطلاب والمواد، مع العلم أنه يجب تخزين المعلومات الآتية لكل طالب (الرقم التسلسلي للطالب، اسم الطالب، تاريخ الميلاد، جنس الطالب، تاريخ الالتحاق، البريد الإلكتروني للطالب، المستوى الدراسي، المسار، المعدل التراكمي للطالب)

ومعلومات المعلمين كالتالي(الرقم التسلسلي للمعلم، اسم المعلم، تاريخ الميلاد، جنس المعلم، البريد الإلكتروني للمعلم، رقم المكتب) ومعلومات المواد كالتالي (الرقم التسلسلي للمادة، اسم المادة).

المطلبات:

استخدام التعليقات comments لتوضيح الأوامر.

إنشاء قاعدة البيانات.

إنشاء الجداول.

عرض الجداول المتاحة في قاعدة البيانات.

إدخال معلومات ٣٠ طالب كحد أدنى.

إدخال معلومات ١٠ معلمين كحد أدنى.

إدخال معلومات ٦ مواد كحد أدنى.

عرض محتويات جميع الجداول.

عرض محتويات جدول الطلاب مع ترتيب الصفوف تصاعدياً حسب اسم الطالب.

عرض محتويات جدول الطلاب مع إعطاء اسم مستعار لحقل "اسم الطالب" لاختصار اسم العمود أو جعله ذات معنى.

التعديل على البيانات.

التعديل على بيانات أحد الطلاب وتحريك البريد الإلكتروني للطالب.

التعديل على بيانات أحد المعلمين وتغيير رقم المكتب الخاص به.

التعديل على الجداول.

تعديل اسم أحد الجداول.

ملاحظات:

الرقم التسلسلي هو id.

الجنس (F) أو (M).

المستوى الدراسي يتكون من ستة مستويات ٣, ٢, ١, ٤, ٥, ٦).

المسار (علمي أو انساني).

المعدل التراكمي من 100.

Create database. ✓

The screenshot shows the MySQL Workbench interface. In the Navigator pane, under the 'Schemas' section, a new schema named 'newschema' is visible. A context menu is open over it, with the option 'Rename' selected. The SQL Editor tab contains the command 'create database school;'. The Output pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
15	16:33:12	select Employee_salary from employee LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
16	16:33:36	use company	0 row(s) affected	0.000 sec
17	16:33:36	select Employee_salary from employee group by Employee_salary LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
18	17:03:28	create database school	1 row(s) affected	0.016 sec

Create student table. ✓

The screenshot shows the MySQL Workbench interface. In the Navigator pane, under the 'Tables' section of the 'school' schema, a new table named 'student' is selected. The SQL Editor tab contains the following SQL code:

```
1 use school;
2 create table student (id int primary key auto_increment,
3 std_name varchar(255),
4 dob date,
5 gender varchar(1),
6 join_date date,
7 std_email varchar(255),
8 std_level int,
9 track varchar(255),
10 gpa decimal);
11
12 /* create student table with requirement fields */
```

The Output pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
20	17:07:26	use school	0 row(s) affected	0.000 sec
21	17:07:26	create table student	Error Code: 4028. A table must have at least one visible column.	0.000 sec
22	17:23:57	use school	0 row(s) affected	0.000 sec
23	17:23:57	create table student (id int primary key auto_increment, std_name varchar(255), ...)	0 row(s) affected	0.032 sec

Create teacher table. ✓

MySQL Workbench

Satr - Warning - not supported ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

- mydb
- newschema
- school**
  - Tables
  - student
  - teacher

Administration Schemas

Information

Table: teacher

Columns:

<b>id</b>	int AI PK
tch_name	varchar(255)
dob	date
gender	varchar(1)
tch_email	varchar(255)
office_no	int

SQL File 1\* ×

```

1 use school;
2 • create table teacher (id int primary key auto_increment,
3 tch_name varchar(255),
4 dob date,
5 gender varchar(1),
6 tch_email varchar(255),
7 office_no int);
8
9 /* create teacher table with requirement fields */

```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
22	17:23:57	use school	0 row(s) affected	0.000 sec
23	17:23:57	create table student (id int primary key auto_increment, std_name varchar(255), ...)	0 row(s) affected	0.032 sec
24	17:29:17	use school	0 row(s) affected	0.016 sec
25	17:29:17	create table teacher (id int primary key auto_increment, tch_name varchar(255), ...)	0 row(s) affected	0.062 sec

Object Info Session

Create course table. ✓

MySQL Workbench

Satr - Warning - not supported ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

- mydb
- newschema
- school**
  - Tables
  - course**
  - Columns
  - Indexes

Administration Schemas

Information

Table: course

Columns:

<b>id</b>	int AI PK
crs_name	varchar(255)

SQL File 1\* ×

```

1 use school;
2 • create table course (id int primary key auto_increment,
3 crs_name varchar(255));
4
5 /* create course table with requirement fields */

```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
24	17:29:17	use school	0 row(s) affected	0.016 sec
25	17:29:17	create table teacher (id int primary key auto_increment, tch_name varchar(255), ...)	0 row(s) affected	0.062 sec
26	17:31:47	use school	0 row(s) affected	0.000 sec
27	17:31:47	create table course (id int primary key auto_increment, crs_name varchar(255))	0 row(s) affected	0.032 sec

Object Info Session

Show tables. ✓

MySQL Workbench

Satr - Warning - not supported

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

- mydb
- newschema
- school**
- Tables
- course
- Columns
- Indexes

Administration Schemas

Information

Table: course

Columns:

<b>id</b>	int AI PK
crs_name	varchar(255)

Result Grid

Tables\_in\_school

- course
- student
- teacher

Result 10

Action Output

#	Time	Action	Message	Duration / Fetch
36	17:34:58	use school	0 row(s) affected	0.000 sec
37	17:34:58	show tables	3 row(s) returned	0.000 sec / 0.000 sec
38	17:35:40	use school	0 row(s) affected	0.000 sec
39	17:35:40	show tables	3 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Insert 30 students into the table. ✓

MySQL Workbench

Satr - Warning - not supported

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

- mydb
- newschema
- school**
- Tables
- course
- student**
- teacher

Administration Schemas

Information

Table: student

Columns:

<b>id</b>	int AI PK
std_name	varchar(255)
dob	date
gender	varchar(1)
join_date	date
std_email	varchar(255)
std_level	int
track	varchar(255)
gpa	decimal(10,0)

SQL File 1\*

```

1 • use school;
2 • insert into student
3   (std_name, dob, gender, join_date, std_email, std_level, track, gpa)
4   values
5   ('Ali', '2002-10-29', 'M', '2022-05-25', 'std1@school.com', 3, 'scientific', 79.2),
6   ('Sara', '2003-01-12', 'F', '2022-06-10', 'std2@school.com', 2, 'humanities', 88.5),
7   ('Fahad', '2004-03-08', 'M', '2023-02-15', 'std3@school.com', 1, 'scientific', 91.3),
8   ('Noura', '2002-09-19', 'F', '2021-09-01', 'std4@school.com', 4, 'scientific', 82.0),
9   ('Hassan', '2003-05-14', 'M', '2022-08-22', 'std5@school.com', 2, 'humanities', 73.6),
10  ('Rania', '2004-11-02', 'F', '2023-01-03', 'std6@school.com', 1, 'scientific', 90.4),
11  ('Majed', '2002-07-27', 'M', '2021-06-14', 'std7@school.com', 5, 'scientific', 84.7),
12  ('Amani', '2003-02-03', 'F', '2022-09-19', 'std8@school.com', 2, 'humanities', 77.8),
13  ('Tariq', '2004-06-21', 'M', '2023-03-10', 'std9@school.com', 1, 'scientific', 95.0),
14  ('Laila', '2002-04-30', 'F', '2021-08-15', 'std10@school.com', 5, 'humanities', 81.5),
15  ('Khalid', '2003-10-08', 'M', '2022-05-20', 'std11@school.com', 3, 'scientific', 87.2),
16  ('Fatimah', '2004-12-25', 'F', '2023-02-05', 'std12@school.com', 1, 'humanities', 92.8),
17  ('Yousef', '2002-08-19', 'M', '2021-07-07', 'std13@school.com', 5, 'scientific', 78.4),
18  ('Mona', '2003-03-22', 'F', '2022-09-10', 'std14@school.com', 2, 'scientific', 85.9),
19  ('Abdulrahman', '2004-05-16', 'M', '2023-01-14', 'std15@school.com', 1, 'humanities', 88.3),
20  ('Reem', '2002-11-11', 'F', '2021-09-04', 'std16@school.com', 4, 'humanities', 89.0),

```

Output

Action Output

MySQL Workbench

Satr - Warning - not supported

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

- mydb
- newschema
- school**
  - Tables
  - course
  - student
  - teacher

Administration Schemas

Information

Table: student

Columns:

	<b>id</b>	int AI PK
	<b>std_name</b>	varchar(255)
	<b>dob</b>	date
	<b>gender</b>	varchar(1)
	<b>join_date</b>	date
	<b>std_email</b>	varchar(255)
	<b>std_level</b>	int
	<b>track</b>	varchar(255)
	<b>gpa</b>	decimal(10,0)

SQL File 1\*

```

20 ('Reem', '2002-11-11', 'F', '2021-09-04', 'std16@school.com', 4, 'humanities', 89.0),
21 ('Saud', '2003-09-17', 'M', '2022-07-22', 'std17@school.com', 3, 'scientific', 94.6),
22 ('Nadia', '2004-02-26', 'F', '2023-04-02', 'std18@school.com', 1, 'scientific', 75.3),
23 ('Huda', '2002-05-07', 'F', '2021-06-11', 'std19@school.com', 5, 'humanities', 83.2),
24 ('Abdullah', '2003-06-30', 'M', '2022-08-05', 'std20@school.com', 2, 'scientific', 90.9),
25 ('Rashed', '2002-03-19', 'M', '2021-05-29', 'std21@school.com', 6, 'scientific', 86.1),
26 ('Hanan', '2004-09-14', 'F', '2023-03-28', 'std22@school.com', 1, 'humanities', 79.8),
27 ('Faisal', '2003-01-28', 'M', '2022-07-01', 'std23@school.com', 3, 'scientific', 93.0),
28 ('Nada', '2002-12-02', 'F', '2021-08-09', 'std24@school.com', 4, 'scientific', 85.0),
29 ('Mishal', '2004-07-23', 'M', '2023-04-11', 'std25@school.com', 1, 'humanities', 77.5),
30 ('Aisha', '2002-02-18', 'F', '2021-05-10', 'std26@school.com', 6, 'scientific', 92.1),
31 ('Omar', '2003-08-27', 'M', '2022-09-06', 'std27@school.com', 2, 'scientific', 74.9),
32 ('Noor', '2004-01-04', 'F', '2023-01-28', 'std28@school.com', 1, 'humanities', 88.3),
33 ('Latifah', '2003-11-13', 'F', '2022-08-02', 'std29@school.com', 2, 'scientific', 81.6),
34 ('Badr', '2002-06-05', 'M', '2021-06-23', 'std30@school.com', 6, 'humanities', 90.0);
35 /* add 30 students to the table */

```

Action Output

#	Time	Action	Message	Duration / Fetch
43	20:58:55	alter table student modify gpa decimal(5,2)	30 row(s) affected Records: 30 Duplicates: 0 Warnings: 0	0.140 sec
44	20:59:05	use school	0 row(s) affected	0.000 sec
45	20:59:05	insert into student (std_name, dob, gender, join_date, std_email, std_level, track, gpa)	30 row(s) affected Records: 30 Duplicates: 0 Warnings: 0	0.016 sec

Object Info Session

Show all students. ✓

MySQL Workbench

Satr - Warning - not supported

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

- mydb
- newschema
- school**
  - Tables
  - course
  - student
  - teacher

Administration Schemas

Information

Table: student

Columns:

	<b>id</b>	int AI PK
	<b>std_name</b>	varchar(255)
	<b>dob</b>	date
	<b>gender</b>	varchar(1)
	<b>join_date</b>	date
	<b>std_email</b>	varchar(255)
	<b>std_level</b>	int
	<b>track</b>	varchar(255)
	<b>gpa</b>	decimal(10,0)

SQL File 1\*

```

1 • use school;
2 • select * from student;
3

```

Result Grid

id	std_name	dob	gender	join_date	std_email	std_level	track	gpa
1	Ali	2002-10-29	M	2022-05-25	std1@school.com	3	scientific	79.20
2	Sara	2003-01-12	F	2022-06-10	std2@school.com	2	humanities	88.50
3	Fahad	2004-03-08	M	2023-02-15	std3@school.com	1	scientific	91.30
4	Noura	2002-09-19	F	2021-09-01	std4@school.com	4	scientific	82.00
5	Hassan	2003-05-14	M	2022-08-22	std5@school.com	2	humanities	73.60
6	Rania	2004-11-02	F	2023-01-03	std6@school.com	1	scientific	90.40
7	Majed	2002-07-27	M	2021-06-14	std7@school.com	5	scientific	84.70
8	Amani	2003-02-03	F	2022-09-19	std8@school.com	2	humanities	77.80
9	Tariq	2004-06-21	M	2023-03-10	std9@school.com	1	scientific	95.00
10	Laila	2002-04-30	F	2021-08-15	std10@school.com	5	humanities	81.50
11	Khalid	2003-10-06	M	2022-05-20	std11@school.com	3	scientific	87.20
12	Fatimah	2004-12-25	F	2023-02-05	std12@school.com	1	humanities	92.80
13	Yousef	2002-08-19	M	2021-07-07	std13@school.com	5	scientific	78.40
14	Mona	2003-03-22	F	2022-09-10	std14@school.com	2	scientific	85.90
15	Abdulrah...	2004-05-16	M	2023-01-14	std15@school.com	1	humanities	80.30
16	Reem	2002-11-11	F	2021-09-04	std16@school.com	4	humanities	89.00
17	Saud	2003-09-17	M	2022-07-22	std17@school.com	3	scientific	94.60

student 12

Object Info Session

MySQL Workbench

Satr - Warning - not supported

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

- mydb
- newschema
- school**
  - Tables
    - course
    - student
    - teacher

Administration Schemas

Information

Table: student

Columns:

	<b>id</b>	<b>std_name</b>	<b>dob</b>	<b>gender</b>	<b>join_date</b>	<b>std_email</b>	<b>std_level</b>	<b>track</b>	<b>gpa</b>
16	Reem	2002-11-11	F	2021-09-04	std16@school.com	4	humanities	89.00	
17	Saud	2003-09-17	M	2022-07-22	std17@school.com	3	scientific	94.60	
18	Nadia	2004-02-26	F	2023-04-02	std18@school.com	1	scientific	75.30	
19	Huda	2002-05-07	F	2021-06-11	std19@school.com	5	humanities	83.20	
20	Abdullah	2003-06-30	M	2022-08-05	std20@school.com	2	scientific	90.90	
21	Rashed	2002-03-19	M	2021-05-29	std21@school.com	6	scientific	86.10	
22	Hanan	2004-09-14	F	2023-03-20	std22@school.com	1	humanities	79.80	
23	Faisal	2003-01-28	M	2022-07-01	std23@school.com	3	scientific	93.00	
24	Nada	2002-12-02	F	2021-08-09	std24@school.com	4	scientific	85.00	
25	Mishal	2004-07-23	M	2023-04-11	std25@school.com	1	humanities	77.50	
26	Aisha	2002-02-18	F	2021-05-10	std26@school.com	6	scientific	92.10	
27	Omar	2003-08-27	M	2022-09-06	std27@school.com	2	scientific	74.90	
28	Noor	2004-01-04	F	2023-01-28	std28@school.com	1	humanities	88.30	
29	Latifah	2005-11-13	F	2022-08-02	std29@school.com	2	scientific	81.60	
30	Badr	2002-06-05	M	2021-06-23	std30@school.com	6	humanities	90.00	

student 12

Object Info Session Output

Insert 10 teachers into the table. ✓

MySQL Workbench

Satr - Warning - not supported

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

- mydb
- newschema
- school**
  - Tables
    - course
    - student
    - teacher

Administration Schemas

Information

Table: teacher

Columns:

	<b>id</b>	<b>tch_name</b>	<b>dob</b>	<b>gender</b>	<b>tch_email</b>	<b>office_no</b>
1		'Fahmy'	'1978-11-30'	'M'	'tch1@school.com'	101
2		'Sara'	'1982-03-12'	'F'	'tch2@school.com'	102
3		'Omar'	'1975-07-25'	'M'	'tch3@school.com'	103
4		'Noura'	'1988-09-18'	'F'	'tch4@school.com'	104
5		'Majed'	'1979-05-14'	'M'	'tch5@school.com'	105
6		'Huda'	'1983-12-02'	'F'	'tch6@school.com'	106
7		'Khalid'	'1976-06-21'	'M'	'tch7@school.com'	107
8		'Reem'	'1981-01-10'	'F'	'tch8@school.com'	108
9		'Saud'	'1977-08-30'	'M'	'tch9@school.com'	109
10		'Aisha'	'1984-02-18'	'F'	'tch10@school.com'	110

-- add 10 teachers to the table

Action Output

#	Time	Action	Message	Duration / Fetch
53	21:03:25	select *from student LIMIT 0, 1000	30 row(s) returned	0.000 sec / 0.000 sec
54	21:11:31	use school	0 row(s) affected	0.000 sec
55	21:11:31	insert into teacher (tch_name, dob, gender, tch_email, office_no) values (Fahmy...)	10 rows(affected) Records: 10 Duplicates: 0 Warnings: 0	0.047 sec

Object Info Session Output

Show all teachers. ✓

MySQL Workbench

Satr - Warning - not supported

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

- mydb
- newschema
- school**
  - Tables
  - course
  - student
  - teacher

Administration Schemas

Information

Table: teacher

Columns:

	<b>id</b>	<b>tch_name</b>	<b>dob</b>	<b>gender</b>	<b>tch_email</b>	<b>office_no</b>
1	Fahmy	1978-11-30	M	tch1@school.com	101	
2	Sara	1982-03-12	F	tch2@school.com	102	
3	Omar	1975-07-25	M	tch3@school.com	103	
4	Noura	1980-09-18	F	tch4@school.com	104	
5	Majed	1979-05-14	M	tch5@school.com	105	
6	Huda	1983-12-02	F	tch6@school.com	106	
7	Khalid	1976-06-21	M	tch7@school.com	107	
8	Reem	1981-01-10	F	tch8@school.com	108	
9	Saud	1977-08-30	M	tch9@school.com	109	
10	Aisha	1984-02-18	F	tch10@school.com	110	

teacher 13

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

Output

Action Output

#	Time	Action	Message	Duration / Fetch
56	21:12:36	use school	0 row(s) affected	0.000 sec
57	21:12:36	select * from teacher LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Insert 6 courses into the table. ✓

MySQL Workbench

Satr - Warning - not supported

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

- mydb
- newschema
- school**
  - Tables
  - course
  - student
  - teacher

Administration Schemas

Information

Table: course

Columns:

	<b>id</b>	<b>crs_name</b>
1		int AI PK
2		varchar(255)

use school;

insert into course (crs\_name)

values

(‘Math’),  
 (‘Physics’),  
 (‘Chemistry’),  
 (‘Biology’),  
 (‘History’),  
 (‘English’);

-- add 6 courses to the table

Output

Action Output

#	Time	Action	Message	Duration / Fetch
58	21:16:59	use school	0 row(s) affected	0.000 sec
59	21:16:59	insert into course (crs_name) values (‘Math’), (‘Physics’), (‘Chemistry’), (‘Biology’), (‘History’), (‘English’);	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.062 sec

Object Info Session

Show all courses. ✓

MySQL Workbench

Satr - Warning - not supported

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

- mydb
- newschema
- school**
- Tables
  - course
  - student
  - teacher

Administration Schemas

Information

Table: course

Columns:

<b>id</b>	int AI PK
crs_name	varchar(255)

Result Grid

	<b>id</b>	crs_name
1	1	Math
2	2	Physics
3	3	Chemistry
4	4	Biology
5	5	History
6	6	English
*	HULLS	HULLS

course 14 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
62	21:18:29	use school	0 row(s) affected	0.000 sec
63	21:18:29	select * from course LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Order table by student name ascending. ✓

MySQL Workbench

Satr - Warning - not supported

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

- mydb
- newschema
- school**
- Tables
  - course
  - student
  - teacher

Administration Schemas

Information

Table: student

Columns:

<b>id</b>	int AI PK
std_name	varchar(255)
dob	date
gender	varchar(1)
join_date	date
std_email	varchar(255)
std_level	int
track	varchar(255)
gpa	decimal(10,0)

Result Grid

	<b>id</b>	std_name	dob	gender	join_date	std_email	std_level	track	gpa
20	Abdullah	2003-06-30	M	2022-08-05	std20@school.com	2	scientific	90.90	
15	Abdulrahman	2004-05-16	M	2023-01-14	std15@school.com	1	humanities	80.30	
26	Aisha	2002-02-18	F	2021-05-10	std26@school.com	6	scientific	92.10	
1	Ali	2002-10-29	M	2022-05-25	std1@school.com	3	scientific	79.20	
8	Amani	2003-02-03	F	2022-09-19	std8@school.com	2	humanities	77.80	
30	Badr	2002-06-05	M	2021-06-23	std30@school.com	6	humanities	90.00	
3	Fahad	2004-03-08	M	2023-02-15	std3@school.com	1	scientific	91.30	
23	Faisal	2003-01-28	M	2022-07-01	std23@school.com	3	scientific	93.00	
12	Fatimah	2004-12-25	F	2023-02-05	std12@school.com	1	humanities	92.80	
22	Hanani	2004-09-14	F	2023-03-20	std22@school.com	1	humanities	79.80	

student 15 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
64	21:21:09	use school	0 row(s) affected	0.000 sec
65	21:21:09	select * from student order by std_name asc LIMIT 0, 1000	30 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Give std\_name alias. ✓

MySQL Workbench

Satr - Warning - not supported ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

- mydb
- newschema
- school**
  - Tables
    - course
    - student
    - teacher

Administration Schemas

Information

Table: student

Columns:

	<b>id</b>	int AI PK						
	<b>std_name</b>	varchar(255)						
	<b>dob</b>	date						
	<b>gender</b>	varchar(1)						
	<b>join_date</b>	date						
	<b>std_email</b>	varchar(255)						
	<b>std_level</b>	int						
	<b>track</b>	varchar(255)						
	<b>gpa</b>	decimal(10,0)						
1	Ali	2002-10-29	M	2022-05-25	std1@school.com	3	scientific	79.20
2	Sara	2003-01-12	F	2022-06-10	std2@school.com	2	humanities	88.50
3	Fahad	2004-03-08	M	2023-02-15	std3@school.com	1	scientific	91.30
4	Noura	2002-09-19	F	2021-09-01	std4@school.com	4	scientific	82.00
5	Hassan	2003-05-14	M	2022-08-22	std5@school.com	2	humanities	73.60
6	Rania	2004-11-02	F	2023-01-03	std6@school.com	1	scientific	90.40
7	Majed	2002-07-27	M	2021-06-14	std7@school.com	5	scientific	84.70
8	Amani	2003-02-03	F	2022-09-19	std8@school.com	2	humanities	77.80
9	Tariq	2004-06-21	M	2023-03-10	std9@school.com	1	scientific	95.00
10	Laila	2002-04-30	F	2021-08-15	std10@school.com	5	humanities	81.50

student 21 ×

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

Action Output

#	Time	Action	Message	Duration / Fetch
76	21:32:03	use school	0 row(s) affected	0.000 sec
77	21:32:03	select id, std_name as Student_Name, dob, gender, join_date, std_email, std_level, track, gpa from student;	30 row(s) returned	0.016 sec / 0.000 sec

Object Info Session

Update student email. ✓

MySQL Workbench

Satr - Warning - not supported ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

- mydb
- newschema
- school**
  - Tables
    - course
    - student
    - teacher

Administration Schemas

Information

Table: student

Columns:

	<b>id</b>	int AI PK						
	<b>std_name</b>	varchar(255)						
	<b>dob</b>	date						
	<b>gender</b>	varchar(1)						
	<b>join_date</b>	date						
	<b>std_email</b>	varchar(255)						
	<b>std_level</b>	int						
	<b>track</b>	varchar(255)						
	<b>gpa</b>	decimal(10,0)						
1	Ali	2002-10-29	M	2022-05-25	stdAll@school.com	3	scientific	79.20
2	Sara	2003-01-12	F	2022-06-10	std2@school.com	2	humanities	88.50
3	Fahad	2004-03-08	M	2023-02-15	std3@school.com	1	scientific	91.30
4	Noura	2002-09-19	F	2021-09-01	std4@school.com	4	scientific	82.00
5	Hassan	2003-05-14	M	2022-08-22	std5@school.com	2	humanities	73.60
6	Rania	2004-11-02	F	2023-01-03	std6@school.com	1	scientific	90.40
7	Majed	2002-07-27	M	2021-06-14	std7@school.com	5	scientific	84.70
8	Amani	2003-02-03	F	2022-09-19	std8@school.com	2	humanities	77.80

student 22 ×

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

Action Output

#	Time	Action	Message	Duration / Fetch
79	21:38:39	update student set std_email='stdAll@school.com' where id=1	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.016 sec
80	21:38:39	select * from student LIMIT 0, 1000	30 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Update teacher office number. ✓

MySQL Workbench

Satr - Warning - not supported

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

- mydb
- newschema
- school**
  - Tables
    - course
    - student
    - teacher**

Administration Schemas

Information

Table: teacher

Columns:

	<b>id</b>	int AI PK
1	tch_name	varchar(255)
2	dob	date
3	gender	varchar(1)
4	tch_email	varchar(255)
5	<b>office_no</b>	int

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

```

1 • use school;
2 • update teacher
3   set office_no=111
4   where id=1;
5
6 • select * from teacher;
7   -- update Fahmy office number
  
```

teacher 24 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
84	21:40:17	update teacher set office_no=111 where id=1	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.047 sec
85	21:40:17	select * from teacher LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

## Rename table.

MySQL Workbench

Satr - Warning - not supported

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

- mydb
- newschema
- school**
  - Tables
    - student
    - subjects**
    - teacher

Administration Schemas

Information

Table: subjects

Columns:

	<b>id</b>	int AI PK
1	crs_name	varchar(255)

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

```

1 • use school;
2 • alter table course rename to subjects;
3
4 • select * from subjects;
5   -- rename course to subjects
  
```

subjects 25 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
87	21:46:33	alter table course rename to subjects	0 row(s) affected	0.094 sec
88	21:46:33	select * from subjects LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Project done. ✓