

```
queries.sql  + 42p2pk257

1 Create table Alunos (
2 idAluno int not null auto_increment primary key,
3 nome char(40) not null,
4 idade int not null,
5 curso varchar(30) not null,
6 serie int not null
7 );
8
9 show tables;
10
11 alter table Alunos add cpf char(12) not null;
12
13 desc alunos;
14
15 Alter table Alunos drop cpf;
16
17 desc alunos;
18
19 insert into alunos (nome,idade, curso, serie) values ("maria",17,"des.sistemas",2);
20
21 select * from alunos;
22
23 insert into alunos (nome,idade, curso, serie) values ("lucas",20,"des.sistemas",1);
24
25 select * from alunos;
26
27 insert into alunos (nome,idade, curso, serie) values ("rafael",18,"des.sistemas",2);
28
29 select * from alunos;
30
31 insert into alunos (nome,idade, curso, serie) values ("henrique",17,"des.sistemas",1);
32
33 select * from alunos;
34
35 -----+
36 | Tables_in_sandbox_db |
37 +-----+
38 | alunos |
39 +-----+
40
41 desc alunos;
42
43 -----+
44 | Field | Type | Null | Key | Default | Extra |
45 +-----+
46 | idAluno | int | NO | PRI | NULL | auto_increment |
47 | nome | char(40) | NO | | NULL | |
48 | idade | int | NO | | NULL | |
49 | curso | varchar(30) | NO | | NULL | |
50 | serie | int | NO | | NULL | |
51 | cpf | char(12) | NO | | NULL | |
52 +-----+
53
54 desc alunos;
55
56 -----+
57 | Field | Type | Null | Key | Default | Extra |
58 +-----+
59 | idAluno | int | NO | PRI | NULL | auto_increment |
60 | nome | char(40) | NO | | NULL | |
61 | idade | int | NO | | NULL | |
62 | curso | varchar(30) | NO | | NULL | |
63 | serie | int | NO | | NULL | |
64 +-----+
65
66 idAluno int not null auto_increment primary key,
67
68 -----+
69 | idAluno | nome | idade | curso | serie |
70 +-----+
71 | 1 | maria | 17 | des.sistemas | 2 |
72 +-----+
73
74 idAluno int not null auto_increment primary key
75
76 -----+
77 | idAluno | nome | idade | curso | serie |
78 +-----+
79 | 1 | maria | 17 | des.sistemas | 2 |
80 | 2 | lucas | 20 | des.sistemas | 1 |
81 +-----+
82
83 idAluno int not null auto_increment primary key,
84
85 -----+
86 | idAluno | nome | idade | curso | serie |
87 +-----+
88 | 1 | maria | 17 | des.sistemas | 2 |
89 | 2 | lucas | 20 | des.sistemas | 1 |
90 | 3 | rafael | 18 | des.sistemas | 2 |
91 +-----+
92
93 idAluno int not null auto_increment primary key,
94
95 -----+
96 | idAluno | nome | idade | curso | serie |
97 +-----+
98 | 1 | maria | 17 | des.sistemas | 2 |
99 | 2 | lucas | 20 | des.sistemas | 1 |
100 | 3 | rafael | 18 | des.sistemas | 2 |
101 | 4 | henrique | 17 | des.sistemas | 1 |
102 +-----+
103
104
105
```

STDIN

Input for the program ( Optional)

Output:

```
-----+
| Tables_in_sandbox_db |
+-----+
| alunos |
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| idAluno | int | NO | PRI | NULL | auto_increment |
| nome | char(40) | NO | | NULL | |
| idade | int | NO | | NULL | |
| curso | varchar(30) | NO | | NULL | |
| serie | int | NO | | NULL | |
| cpf | char(12) | NO | | NULL | |
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| idAluno | int | NO | PRI | NULL | auto_increment |
| nome | char(40) | NO | | NULL | |
| idade | int | NO | | NULL | |
| curso | varchar(30) | NO | | NULL | |
| serie | int | NO | | NULL | |
+-----+
| idAluno | nome | idade | curso | serie |
+-----+
| 1 | maria | 17 | des.sistemas | 2 |
+-----+
| idAluno | nome | idade | curso | serie |
+-----+
| 1 | maria | 17 | des.sistemas | 2 |
| 2 | lucas | 20 | des.sistemas | 1 |
+-----+
| idAluno | nome | idade | curso | serie |
+-----+
| 1 | maria | 17 | des.sistemas | 2 |
| 2 | lucas | 20 | des.sistemas | 1 |
| 3 | rafael | 18 | des.sistemas | 2 |
+-----+
| idAluno | nome | idade | curso | serie |
+-----+
| 1 | maria | 17 | des.sistemas | 2 |
| 2 | lucas | 20 | des.sistemas | 1 |
| 3 | rafael | 18 | des.sistemas | 2 |
| 4 | henrique | 17 | des.sistemas | 1 |
+-----+

ERROR 1064 (42000) at line 35: You have an error in your SQL
| Tables_in_sandbox_db |
+-----+ at line 1
```

# MySQL online editor

Write, Run & Share MySQL queries online using OneCompiler's MySQL online editor and compiler for free. It's one of the robust, feature-rich online editor and compiler for MySQL. Getting started with the OneCompiler's MySQL editor is really simple and pretty fast. The editor shows sample boilerplate code when you choose language as 'MySQL' and start writing queries to learn and test online without worrying about tedious process of installation.

## About MySQL

MySQL is a open-source, free and very popular relational database management system which is developed, distributed and supported by Oracle corporation.

### Key Features:

- Open-source relational database management systems.
- Reliable, very fast and easy to use database server.
- Works on client-server model.
- Highly Secure and Scalable
- High Performance
- High productivity as it uses stored procedures, triggers, views to write a highly productive code.
- Supports large databases efficiently.
- Supports many operating systems like Linux\*,CentOS\*, Solaris\*,Ubuntu\*,Windows\*, MacOS\*,FreeBSD\* and others.

## Syntax help

### Commands

#### 1. CREATE

```
CREATE TABLE table_name (
    column1 datatype,
    column2 datatype,
    ....);
```

#### Example

```
CREATE TABLE EMPLOYEE (
empId INTEGER PRIMARY KEY,
name TEXT NOT NULL,
dept TEXT NOT NULL
);
```

#### 2. ALTER

```
ALTER TABLE Table_name ADD column_name datatype;
```

#### Example

```
INSERT INTO EMPLOYEE VALUES (0001, 'Dave', 'Sales');
```

#### 3. TRUNCATE

```
TRUNCATE table table_name;
```

#### 4. DROP

```
DROP TABLE table_name;
```

#### 5. RENAME

```
RENAME TABLE table_name1 to new_table_name1;
```

#### 6. COMMENT

##### Single-Line Comments:

```
--Line1;
```

##### Multi-Line comments:

```
/* Line1,
Line2 */
```

## DML Commands

#### 1. INSERT

```
INSERT INTO table_name (column1, column2, column3, ...) VALUES (value1, value2, value3, ...);
```

Note: Column names are optional.

#### Example

```
INSERT INTO EMPLOYEE VALUES (0001, 'Ava', 'Sales');
```

#### 2. SELECT

```
SELECT column1, column2, ...
FROM table_name
[where condition];
```

#### Example

```
SELECT * FROM EMPLOYEE where dept ='sales';
```

#### 3. UPDATE

```
UPDATE table_name
SET column1 = value1, column2 = value2, ...
WHERE condition;
```

#### Example

```
UPDATE EMPLOYEE SET dept = 'Sales' WHERE empId='0001';
```

#### 4. DELETE

```
DELETE FROM table_name where condition;
```

#### Example

```
DELETE from EMPLOYEE where empId='0001';
```

## Indexes

#### 1. CREATE INDEX

```
CREATE INDEX index_name on table_name(column_name);
```

- To Create Unique index:

```
CREATE UNIQUE INDEX index_name on table_name(column_name);
```

#### 2. DROP INDEX

```
DROP INDEX index_name ON table_name;
```

## Views

#### 1. Create a View

Creating a **View**:  
**CREATE VIEW** View\_name **AS**  
Query;

#### 2. How to call view

```
SELECT * FROM View_name;
```

#### 3. Altering a View

```
ALTER View View_name AS  
Query;
```

#### 4. Deleting a View

```
DROP VIEW View_name;
```

## Triggers

#### 1. Create a Trigger

```
CREATE TRIGGER trigger_name trigger_time trigger_event
ON tbl_name FOR EACH ROW {trigger_order} trigger_body
/* where
trigger_time: { BEFORE | AFTER }
trigger_event: { INSERT | UPDATE | DELETE }
trigger_order: { FOLLOWS | PRECEDES } */
```

#### 2. Drop a Trigger

```
DROP TRIGGER [IF EXISTS] trigger_name;
```

## Stored Procedures

#### 1. Create a Stored Procedure

```
CREATE PROCEDURE sp_name(p1 datatype)
BEGIN
/*Stored procedure code*/
END;
```

#### 2. How to call Stored procedure

```
CALL sp_name;
```

#### 3. How to delete stored procedure

```
DROP PROCEDURE sp_name;
```

## Joins

#### 1. INNER JOIN

```
SELECT * FROM TABLE1 INNER JOIN TABLE2 where condition;
```

#### 2. LEFT JOIN

```
SELECT * FROM TABLE1 LEFT JOIN TABLE2 ON condition;
```

#### 3. RIGHT JOIN

```
SELECT * FROM TABLE1 RIGHT JOIN TABLE2 ON condition;
```

#### 4. CROSS JOIN

```
SELECT select_list from TABLE1 CROSS JOIN TABLE2;
```

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