

## آزمایش اول پایگاه داده

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تمامی دستورات مرحله به مرحله آورده شده اند :

```
mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| erfan    |
| information_schema |
| mysql    |
| performance_schema |
| sakila   |
| sys      |
| world    |
+-----+
7 rows in set (0.02 sec)
```

```
mysql> CREATE DATABASE ERFAN
-> ;
Query OK, 1 row affected (0.00 sec)
```

```
mysql> DROP DATABASE ERFAN;
Query OK, 0 rows affected (0.00 sec)
```

```
mysql>
```

```
mysql> USE ERFAN;
Database changed
mysql> █
```

```
mysql> SELECT DATABASE();
+-----+
| DATABASE() |
+-----+
| erfan      |
+-----+
1 row in set (0.00 sec)
```

```
mysql> SHOW TABLES;
Empty set (0.01 sec)
```

```
mysql> CREATE TABLE PERSON (LAST_NAME VARCHAR(255), FIRST_NAME VARCHAR(255), BIRTH DATE, DEATH DATE, GENDER ENUM("FEMALE","MALE"));
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> ALTER TABLE PERSON
-> ;
Query OK, 0 rows affected (0.01 sec)
```

```
ERROR 1051 (42502): UNKNOWN TABLE 'PERSON'
mysql> DROP TABLE PERSON
-> ;
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> _
```

```
mysql> CREATE TABLE PERSON (LAST_NAME VARCHAR(255) NOT NULL, FIRST_NAME VARCHAR(255) NOT NULL, BIRTH DATE NOT NULL, DEATH DATE, GENDER ENUM("FEMALE","MALE") NOT NULL);
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> _
```

```
mysql> ALTER TABLE PERSON
-> ADD COLUMN AGE INT NOT NULL;
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql>
```

```
mysql> ALTER TABLE PERSON
-> ADD CONSTRAINT AGE CHECK (AGE>=18);
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> _
```

```
ERROR 1051 (42502): UNKNOWN TABLE 'PERSON'
mysql> DROP TABLE PERSON
-> ;
Query OK, 0 rows affected (0.01 sec)
```

```
mysql>
```

```
mysql> CREATE TABLE person (
-> personID INT UNSIGNED NOT NULL AUTO_INCREMENT,
-> last_name VARCHAR(255) NOT NULL,
-> first_name VARCHAR(255) NOT NULL,
-> birth DATE NOT NULL,
-> death DATE,
-> gender ENUM('female', 'male') NOT NULL,
-> PRIMARY KEY (personID)
-> );
Query OK, 0 rows affected (0.01 sec)

mysql>
```

```
mysql> DESCRIBE PERSON;
+-----+-----+-----+-----+-----+-----+
| Field      | Type                | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| personID   | int unsigned        | NO   | PRI | NULL    | auto_increment |
| last_name  | varchar(255)        | NO   |     | NULL    |                 |
| first_name | varchar(255)        | NO   |     | NULL    |                 |
| birth      | date                | NO   |     | NULL    |                 |
| death      | date                | YES  |     | NULL    |                 |
| gender     | enum('female','male') | NO   |     | NULL    |                 |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

تمرین :

```
mysql> CREATE TABLE MOVIES(TITLE VARCHAR(255) NOT NULL,DIRECTOR VARCHAR(255) NOT NULL, MYEAR INT UNSIGNED NOT NULL, RATING FLOAT UNSIGNED NOT NULL);
Query OK, 0 rows affected, 1 warning (0.01 sec)

mysql> DESCRIBE MOVIES
-> ;
+-----+-----+-----+-----+-----+-----+
| Field      | Type                | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| TITLE      | varchar(255)        | NO   |     | NULL    |                 |
| DIRECTOR   | varchar(255)        | NO   |     | NULL    |                 |
| MYEAR      | int unsigned        | NO   |     | NULL    |                 |
| RATING     | float unsigned      | NO   |     | NULL    |                 |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql> CREATE TABLE ACTS(ACTOR VARCHAR(255) NOT NULL, TITLE VARCHAR(255) NOT NULL);
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> DESCRIBE ACTS
-> ;
```

Field	Type	Null	Key	Default	Extra
ACTOR	varchar(255)	NO		NULL	
TITLE	varchar(255)	NO		NULL	

2 rows in set (0.00 sec)