

1.mysql> -- Create EMP table

mysql> CREATE TABLE EMP (

-> ID INT NOT NULL,

-> Name VARCHAR(50),

-> Department VARCHAR(50),

-> Salary DECIMAL(10, 2),

-> PRIMARY KEY (ID)

->);

Query OK, 0 rows affected (0.24 sec)

mysql> -- Output: Table created successfully

mysql> -- Query OK, 0 rows affected (0.24 sec)

mysql> -- Add a table-level PRIMARY KEY constraint named "my_emp_id_pk" to the EMP table on the ID column

mysql> ALTER TABLE EMP

-> ADD CONSTRAINT my_emp_id_pk PRIMARY KEY (ID);

Query OK, 0 rows affected (0.15 sec)

mysql> -- Output: Primary key constraint named "my_emp_id_pk" added successfully

mysql> -- Query OK, 0 rows affected (0.15 sec)

mysql> -- Show the structure of the EMP table

mysql> DESC EMP;

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+-----+-----+-----+-----+-----+-----+
| Field  | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| ID     | int(11)   | NO   | PRI | NULL    |       |
| Name   | varchar(50) | YES  |     | NULL    |       |
| Department | varchar(50) | YES  |     | NULL    |       |
| Salary | decimal(10,2) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
```

4 rows in set (0.00 sec)

2.mysql> -- Create DEPT table

mysql> CREATE TABLE DEPT (

-> ID INT NOT NULL,

-> DepartmentName VARCHAR(50),

-> Location VARCHAR(50),

-> PRIMARY KEY (ID)

->);

Query OK, 0 rows affected (0.24 sec)

mysql> -- Output: Table created successfully

mysql> -- Query OK, 0 rows affected (0.24 sec)

mysql> -- Add a PRIMARY KEY constraint named "my_dept_id_pk" to the DEPT table on the ID column

mysql> ALTER TABLE DEPT

-> ADD CONSTRAINT my_dept_id_pk PRIMARY KEY (ID);

Query OK, 0 rows affected (0.15 sec)

mysql> -- Output: Primary key constraint named "my_dept_id_pk" added successfully

mysql> -- Query OK, 0 rows affected (0.15 sec)

3.mysql> -- Add a column DEPT_ID to the EMP table

mysql> ALTER TABLE EMP

-> ADD COLUMN DEPT_ID INT;

Query OK, 0 rows affected (0.24 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> -- Output: Column DEPT_ID added to the EMP table

mysql> -- Query OK, 0 rows affected (0.24 sec)

mysql> -- Add a foreign key constraint named "my_emp_dept_id_fk" to the EMP table

mysql> ALTER TABLE EMP

-> ADD CONSTRAINT my_emp_dept_id_fk FOREIGN KEY (DEPT_ID) REFERENCES DEPT(ID);

Query OK, 0 rows affected (0.15 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> -- Output: Foreign key constraint named "my_emp_dept_id_fk" added successfully

mysql> -- Query OK, 0 rows affected (0.15 sec)