

Enter password: \*\*\*\*\*

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 19

Server version: 8.0.21 MySQL Community Server - GPL

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> show databases;
```

```
+-----+
| Database      |
+-----+
| company       |
| information_schema |
| mysql         |
| office        |
| performance_schema |
| sakila        |
| student       |
| sys           |
| world         |
+-----+
```

9 rows in set (0.10 sec)

```
mysql> create database company1;
```

Query OK, 1 row affected (0.42 sec)

```
mysql> connect company1;
```

Connection id: 20

Current database: company1

```
mysql> create table department(dept_no int primary key,dept_name varchar (20),location
varchar(20));
```

Query OK, 0 rows affected (2.06 sec)

```
mysql> desc department;
```

Field	Type	Null	Key	Default	Extra
dept_no	int	NO	PRI	NULL	
dept_name	varchar(20)	YES		NULL	
location	varchar(20)	YES		NULL	

3 rows in set (0.11 sec)

```
mysql> create table employee(emp_no int primary key,e_name varchar (20),address varchar(20),city
varchar(20),pincode int, salary int, designation varchar(30),dept_no int, foregin key(dept_no)
references department(dept_no));
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'key(dept\_no) references department(dept\_no))' at line 1

```
mysql> create table employee(emp_no int primary key,e_name varchar (20),address varchar(20),city
varchar(20),pincode int, salary int, designation varchar(30),dept_no int, foreign key (dept_no)
references department (dept_no));
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'key (dept\_no) references department (dept\_no))' at line 1

```
mysql> create table employee(emp_no int primary key,e_name varchar (20),address varchar(20),city
varchar(20),pincode int, salary int, designation varchar(30),dept_no int, foreign key(dept_no)
references department(dept_no));
```

Query OK, 0 rows affected (2.03 sec)

```
mysql> desc employee;
```

Field	Type	Null	Key	Default	Extra
emp_no	int	NO	PRI	NULL	
e_name	varchar(20)	YES		NULL	
address	varchar(20)	YES		NULL	
city	varchar(20)	YES		NULL	
pincode	int	YES		NULL	
salary	int	YES		NULL	
designation	varchar(30)	YES		NULL	
dept_no	int	YES	MUL	NULL	

8 rows in set (0.31 sec)

```
mysql> create table manager(emp_no int references employee (emp_no),dept_no int references department (dept_no));
```

Query OK, 0 rows affected (1.94 sec)

```
mysql> desc manager;
```

Field	Type	Null	Key	Default	Extra
emp_no	int	YES		NULL	
dept_no	int	YES		NULL	

2 rows in set (0.29 sec)

```
mysql> insert into department values(11,"marketing","mumbai");
```

Query OK, 1 row affected (0.15 sec)

```
mysql> insert into department values(11,"sales","pune");b
```

ERROR 1062 (23000): Duplicate entry '11' for key 'department.PRIMARY'

```
-> insert into department values(12,"sales","pune");
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'b

insert into department values(12,"sales","pune")' at line 1

```
mysql> insert into department values(12,"sales","pune");
```

Query OK, 1 row affected (0.22 sec)

```
mysql> insert into department values(13,"maintence","nashik");
```

Query OK, 1 row affected (0.19 sec)

```
mysql> insert into department values(14,"design","delhi");
```

Query OK, 1 row affected (0.29 sec)

```
mysql> select * from department;
```

```
+-----+-----+-----+
| dept_no | dept_name | location |
+-----+-----+-----+
| 11 | marketing | mumbai |
| 12 | sales | pune |
| 13 | maintence | nashik |
| 14 | design | delhi |
+-----+-----+-----+
```

4 rows in set (0.00 sec)

```
mysql> alter table employee modify column emp_no int auto_incremenet;
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'auto\_incremenet' at line 1

```
mysql> alter table employee modify column emp_no int auto_increment;
```

Query OK, 0 rows affected (4.17 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> alter table employee auto_increment=101;
```

Query OK, 0 rows affected (0.38 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> desc employee;
```

Field	Type	Null	Key	Default	Extra
emp_no	int	NO	PRI	NULL	auto_increment
e_name	varchar(20)	YES		NULL	
address	varchar(20)	YES		NULL	
city	varchar(20)	YES		NULL	
pincode	int	YES		NULL	
salary	int	YES		NULL	
designation	varchar(30)	YES		NULL	
dept_no	int	YES	MUL	NULL	

8 rows in set (0.12 sec)

```
mysql> insert into
```

```
employee(e_name,address,city,pincode,salary,designation,dept_no)values("riya","mumba  
road","mumbai",422010,70000,"manager",11);
```

Query OK, 1 row affected (0.20 sec)

```
mysql> insert into
```

```
employee(e_name,address,city,pincode,salary,designation,dept_no)values("priya","kalyan  
road","pune",422011,60000,"manager",13);
```

Query OK, 1 row affected (0.23 sec)

```
mysql> insert into
employee(e_name,address,city,pincode,salary,designation,dept_no)values("raj","meera
road","nashik",422021,65000,"wise_manager",14);
```

Query OK, 1 row affected (0.16 sec)

```
mysql> insert into
employee(e_name,address,city,pincode,salary,designation,dept_no)values("sumedh","mg
road","nashik",422012,50000,"sales_manager",15);
```

ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails  
(`company1`.`employee`, CONSTRAINT `employee\_ibfk\_1` FOREIGN KEY (`dept\_no`) REFERENCES  
`department` (`dept\_no`))

```
mysql> insert into
employee(e_name,address,city,pincode,salary,designation,dept_no)values("sumedh","mg
road","delhi",422012,50000,"sales_manager",15);
```

ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails  
(`company1`.`employee`, CONSTRAINT `employee\_ibfk\_1` FOREIGN KEY (`dept\_no`) REFERENCES  
`department` (`dept\_no`))

```
mysql> select * from employee;
```

emp_no	e_name	address	city	pincode	salary	designation	dept_no
101	riya	mumba road	mumbai	422010	70000	manager	11
102	priya	kalyan road	pune	422011	60000	manager	13
103	raj	meera road	nashik	422021	65000	wise_manager	14

3 rows in set (0.00 sec)

```
mysql> create view emp_mumbai as select emp_no,e_name,city,salary from employee where
city="mumbai";
```

Query OK, 0 rows affected (0.76 sec)

```
mysql> select * from emp_mumbai;
```

emp_no	e_name	city	salary
--------	--------	------	--------

```
| 101 | riya | mumbai | 70000 |
```

```
+-----+-----+-----+-----+
```

1 row in set (0.03 sec)

```
mysql> create index first1 on employee(emp_no);
```

Query OK, 0 rows affected (1.85 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> show index from empolyee;
```

ERROR 1146 (42S02): Table 'company1.empolyee' doesn't exist

```
mysql> show index from employee;
```

ERROR 1146 (42S02): Table 'company1.employee' doesn't exist

```
mysql> create index first_index on employee(emp_no);
```

Query OK, 0 rows affected, 1 warning (0.72 sec)

Records: 0 Duplicates: 0 Warnings: 1

```
mysql> show index from empolyee;
```

ERROR 1146 (42S02): Table 'company1.empolyee' doesn't exist

```
mysql> create index first1 on department(dept_no);
```

Query OK, 0 rows affected (1.87 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> show index from department;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+
```

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment	Visible	Expression
-------	------------	----------	--------------	-------------	-----------	-------------	----------	--------	------	------------	---------	---------------	---------	------------

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+
```

department	0	PRIMARY	1	dept_no	A	4			NULL	NULL				
BTREE									YES	NULL				

department	1	first1	1	dept_no	A	4			NULL	NULL				
BTREE									YES	NULL				

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
```

2 rows in set (0.23 sec)

mysql> create index second1 on employee(e\_name);

Query OK, 0 rows affected (1.26 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> show index from employee;

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
```

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment	Visible	Expression
-------	------------	----------	--------------	-------------	-----------	-------------	----------	--------	------	------------	---------	---------------	---------	------------

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
```

employee	0	PRIMARY	1	emp_no	A	2			NULL	NULL				
BTREE									YES	NULL				

employee	1	dept_no	1	dept_no	A	2			NULL	NULL	YES			
BTREE									YES	NULL				

employee	1	first1	1	emp_no	A	3			NULL	NULL				
BTREE									YES	NULL				

employee	1	first_index	1	emp_no	A	3			NULL	NULL				
BTREE									YES	NULL				

employee	1	second1	1	e_name	A	3			NULL	NULL	YES			
BTREE									YES	NULL				

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
```

5 rows in set (0.33 sec)

mysql>