

```
mysql> create database company;
Query OK, 1 row affected (0.01 sec)

mysql> use company;
Database changed
mysql> create table customer(c_id int primary key,c_name varchar(20),c_city varchar(10),c_cont int);
Query OK, 0 rows affected (0.16 sec)

mysql> describe customer;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| c_id  | int(11) | NO | PRI | NULL | |
| c_name | varchar(20) | YES | | NULL | |
| c_city | varchar(10) | YES | | NULL | |
| c_cont | int(11) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)

mysql> create table employee(emp_id int primary key,emp_name varchar(20),emp_city varchar(10),salary int);
Query OK, 0 rows affected (0.18 sec)

mysql> describe employee;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| emp_id | int(11) | NO | PRI | NULL | |
| emp_name | varchar(20) | YES | | NULL | |
| emp_city | varchar(10) | YES | | NULL | |
| salary | int(11) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.10 sec)

mysql> alter table employee add constraint c_id int;
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 'int' at line 1
mysql> alter table employee add constraint c_id;
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 '' at line 1
```

MySQL 5.5 Command Line Client

```
mysql> alter table employee add column c_id int;
Query OK, 0 rows affected (0.38 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> describe employee;
```

Field	Type	Null	Key	Default	Extra
emp_id	int(11)	NO	PRI	NULL	
emp_name	varchar(20)	YES		NULL	
emp_city	varchar(10)	YES		NULL	
salary	int(11)	YES		NULL	
c_id	int(11)	YES		NULL	

5 rows in set (0.01 sec)

```
mysql> alter table employee add constraint foreign key (c_id) references customer;
```

ERROR 1005 (HY000): Can't create table 'company.#sql-1030_2' (errno: 150)

```
mysql> alter table employee add constraint foreign key c_id references customer;
```

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 'references customer' at line 1

```
mysql> alter table employee add constraint foreign key (c_id) references customer(id);
```

ERROR 1005 (HY000): Can't create table 'company.#sql-1030_2' (errno: 150)

```
mysql> alter table employee add constraint foreign key (c_id int) references customer(id);
```

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 'int) references customer(id)' at line 1

```
mysql> alter table employee add constraint foreign key (c_id) references customer(c_id);
```

Query OK, 0 rows affected (0.41 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> describe employee;
```

Field	Type	Null	Key	Default	Extra
emp_id	int(11)	NO	PRI	NULL	
emp_name	varchar(20)	YES		NULL	
emp_city	varchar(10)	YES		NULL	
salary	int(11)	YES		NULL	
c_id	int(11)	YES	MUL	NULL	

5 rows in set (0.00 sec)

```
mysql> describe customer;
```

Field	Type	Null	Key	Default	Extra
-------	------	------	-----	---------	-------

```
MySQL 3.3 Command Line Client
5 rows in set (0.00 sec)

mysql> describe customer;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| c_id  | int(11) | NO | PRI | NULL | |
| c_name | varchar(20) | YES | | NULL | |
| c_city | varchar(10) | YES | | NULL | |
| c_cont | int(11) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> insert into customer(00000001,'abc','dadar',00000001);
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 '00000001,'abc'
c','dadar',00000001)' at line 1
mysql> insert into customer values (00000001,'abc','dadar',00000001);
Query OK, 1 row affected (0.12 sec)

mysql> select*from customer;
+-----+-----+-----+-----+
| c_id | c_name | c_city | c_cont |
+-----+-----+-----+-----+
| 1 | abc | dadar | 1 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> insert into customer values (00000002,'abc','dadar',00000002)
-> (00000003,'efs','borivali',00000003)
-> (00000004,'gfh','andheri',00000004)
-> (00000005,'lkj','charni',00000006);
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 '(00000003,'e
fs','borivali',00000003)
(00000004,'gfh','andheri',00000004)
(' at line 2
mysql> insert into customer values (00000002,'dfg','borivali',00000002),(00000003,'sde','dadar',00000004),(00000004,'kij','charni',00000006);
Query OK, 3 rows affected (0.13 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> select*from customer;
+-----+-----+-----+-----+
| c_id | c_name | c_city | c_cont |
+-----+-----+-----+-----+
| 1 | abc | dadar | 1 |
+-----+-----+-----+-----+
```

MySQL 5.5 Command Line Client

Query OK, 1 row affected (0.11 sec)

mysql> select* from employee;

emp_id	emp_name	emp_city	salary	c_id
1	kcd	dadar	100000	1
2	tye	mulund	150000	2
3	bdf	malad	250000	4
4	kku	dadar	150000	3

4 rows in set (0.00 sec)

mysql> select sum(salary) from employee;

sum(salary)
650000

1 row in set (0.00 sec)

mysql> select max(salary) from employee;

max(salary)
250000

1 row in set (0.00 sec)

mysql> select min(salary) from employee;

min(salary)
100000

1 row in set (0.00 sec)

mysql> select avg(salary) from employee;

avg(salary)
162500.0000

1 row in set (0.00 sec)

Type here to search



31°C Smoke



ENG

23:03

22-04-2025



```
MySQL 3.3 Command Line Client
mysql> select avg(salary) from employee;
+-----+
| avg(salary) |
+-----+
| 162500.0000 |
+-----+
1 row in set (0.00 sec)

mysql> select count(salary) from employee;
+-----+
| count(salary) |
+-----+
| 4 |
+-----+
1 row in set (0.00 sec)

mysql> select salary from employee order by salary asc ;
+-----+
| salary |
+-----+
| 100000 |
| 150000 |
| 150000 |
| 250000 |
+-----+
4 rows in set (0.00 sec)

mysql> select salary from employee order by salary desc ;
+-----+
| salary |
+-----+
| 250000 |
| 150000 |
| 150000 |
| 100000 |
+-----+
4 rows in set (0.00 sec)

mysql> select salary ,count(salary) as count from employee group by salary;
+-----+-----+
| salary | count |
+-----+-----+
| 100000 | 1 |
| 150000 | 2 |
+-----+-----+
```

MySQL 3.3 Command Line Client

4 rows in set (0.00 sec)

```
mysql> select salary ,count(salary) as count from employee group by salary;
```

salary	count
100000	1
150000	2
250000	1

3 rows in set (0.00 sec)

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

emp_id	emp_name	emp_city	salary	c_id
1	kcd	dadar	100000	1
2	tye	mulund	150000	2
3	bdf	malad	250000	4
4	kku	dadar	150000	3

4 rows in set (0.00 sec)

```
mysql> select* from customer;
```

c_id	c_name	c_city	c_cont
1	abc	dadar	1
2	dfg	borivali	2
3	sde	dadar	4
4	kij	charni	6

4 rows in set (0.00 sec)

```
mysql> select * from employee e inner join customer c on e.c_id=c.c_id;
```

emp_id	emp_name	emp_city	salary	c_id	c_id	c_name	c_city	c_cont
1	kcd	dadar	100000	1	1	abc	dadar	1
2	tye	mulund	150000	2	2	dfg	borivali	2
4	kku	dadar	150000	3	3	sde	dadar	4
3	bdf	malad	250000	4	4	kij	charni	6

4 rows in set (0.10 sec)

Type here to search



31°C Smoke



23:04
22-04-2025

MySQL 3.3 Command Line Client

emp_id	emp_name	emp_city	salary	c_id	c_id	c_name	c_city	c_cont
1	kcd	dadar	100000	1	1	abc	dadar	1
2	tye	mulund	150000	2	2	dfg	borivali	2
4	kkk	dadar	150000	3	3	sde	dadar	4
3	bdf	malad	250000	4	4	kij	charni	6

4 rows in set (0.10 sec)

mysql> select * from employee e left join customer c on e.c_id=c.c_id;

emp_id	emp_name	emp_city	salary	c_id	c_id	c_name	c_city	c_cont
1	kcd	dadar	100000	1	1	abc	dadar	1
2	tye	mulund	150000	2	2	dfg	borivali	2
3	bdf	malad	250000	4	4	kij	charni	6
4	kkk	dadar	150000	3	3	sde	dadar	4

4 rows in set (0.01 sec)

mysql> select * from employee e right join customer c on e.c_id=c.c_id;

emp_id	emp_name	emp_city	salary	c_id	c_id	c_name	c_city	c_cont
1	kcd	dadar	100000	1	1	abc	dadar	1
2	tye	mulund	150000	2	2	dfg	borivali	2
4	kkk	dadar	150000	3	3	sde	dadar	4
3	bdf	malad	250000	4	4	kij	charni	6

4 rows in set (0.00 sec)

mysql> select * from employee e right join customer c on e.c_id=c.c_id
-> union
-> select * from employee e left join customer c on e.c_id=c.c_id;

emp_id	emp_name	emp_city	salary	c_id	c_id	c_name	c_city	c_cont
1	kcd	dadar	100000	1	1	abc	dadar	1
2	tye	mulund	150000	2	2	dfg	borivali	2
4	kkk	dadar	150000	3	3	sde	dadar	4
3	bdf	malad	250000	4	4	kij	charni	6

4 rows in set (0.03 sec)

```
MySQL 5.5 Command Line Client
mysql> CREATE TABLE salary_audit (
->   audit_id INT AUTO_INCREMENT PRIMARY KEY,
->   emp_id INT,
->   old_salary INT,
->   new_salary INT,
->   changed_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
-> );
Query OK, 0 rows affected (0.36 sec)

mysql> DELIMITER //
mysql> CREATE TRIGGER after_salary_update
-> AFTER UPDATE ON employee
-> FOR EACH ROW
-> BEGIN
->   IF OLD.salary != NEW.salary THEN
->     INSERT INTO salary_audit(emp_id, old_salary, new_salary)
->     VALUES (OLD.emp_id, OLD.salary, NEW.salary);
->   END IF;
-> END;
-> //
Query OK, 0 rows affected (0.40 sec)

mysql>
mysql> DELIMITER ;
mysql> CREATE VIEW view_name AS
-> SELECT column1, column2....
-> FROM table_name
-> DELIMITER ;
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 '....
FROM table_name
DELIMITER' at line 2
mysql> create view ss as select emp_id,emp_name from employee;
Query OK, 0 rows affected (0.87 sec)

mysql> describe ss;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| emp_id | int(11) | NO | | NULL | |
| emp_name | varchar(20) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.32 sec)
```