

```
mysql> desc project;
```

Field	Type	Null	Key	Default	Extra
ProjectName	varchar(15)	YES		NULL	
ProjectNumber	int	YES		NULL	
ProjectLocation	varchar(15)	YES		NULL	
DeptNum	int	YES		NULL	

```
4 rows in set (0.10 sec)
```

```
mysql> insert into project values('pa',1,loca,1);  
ERROR 1054 (42S22): Unknown column 'loca' in 'field list'
```

```
mysql> insert into project values('pa',1,'loca',1);  
Query OK, 1 row affected (0.71 sec)
```

```
mysql> insert into project values('pb',2,'locb',2);  
Query OK, 1 row affected (1.72 sec)
```

```
mysql> insert into project values('pc',3,'locc',3);  
Query OK, 1 row affected (0.09 sec)
```

```
mysql> insert into project values('pd',4,'locd',2);  
Query OK, 1 row affected (0.86 sec)
```

```
mysql> select * from project;
```

ProjectName	ProjectNumber	ProjectLocation	DeptNum
pa	1	loca	1
pb	2	locb	2
pc	3	locc	3
pd	4	locd	2

```
4 rows in set (0.00 sec)
```

```
mysql> desc department;
```

Field	Type	Null	Key	Default	Extra
DeptName	varchar(15)	YES		NULL	
DeptNum	int	YES		NULL	
ManagerSSN	char(9)	YES		NULL	
ManageStartDate	date	YES		NULL	

```
4 rows in set (0.00 sec)
```

```
mysql> insert into department values('cse',1,11,'2021-08-21');  
Query OK, 1 row affected (0.11 sec)
```

```
mysql> insert into department values('it',2,22,'2021-08-20');  
Query OK, 1 row affected (0.12 sec)
```

```
mysql> insert into department values('bbt',3,33,'2021-08-10');  
Query OK, 1 row affected (0.04 sec)
```

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

DeptName	DeptNum	ManagerSSN	ManageStartDate
cse	1	11	2021-08-21
it	2	22	2021-08-20
bbt	3	33	2021-08-10

```
3 rows in set (0.00 sec)
```

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

FName	MName	LName	SSN	Bod	Address	Sex	Salary	Supervisorssn	DeptNum
Alok		Sinha	1	1996-09-16	NEPAL	M	800000	10000	1
Alok		Sinha	1	1996-09-16	NEPAL	M	800000	10000	1

```
2 rows in set (0.00 sec)
```

```
mysql> insert into employee(FName,MName,LName,SSN,Bod,Address,Sex,Salary,Supervisorssn,DeptNum) values ('Amit', '', 'Sinha',00002,'1998-02-15','NEPAL','M',900000,11000,2);
Query OK, 1 row affected (1.16 sec)
```

```
mysql> insert into employee(FName,MName,LName,SSN,Bod,Address,Sex,Salary,Supervisorssn,DeptNum) values ('Aditya', '', 'Singh',00003,'1999-02-15','NEPAL','M',900000,12000,3);
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into employee(FName,MName,LName,SSN,Bod,Address,Sex,Salary,Supervisorssn,DeptNum) values ('Ram', 'Prasad', 'Mandal',00004,'1999-09-18','NEPAL','M',100000,13000,1);
Query OK, 1 row affected (0.10 sec)
```

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

FName	MName	LName	SSN	Bod	Address	Sex	Salary	Supervisorssn	DeptNum
Alok		Sinha	1	1996-09-16	NEPAL	M	800000	10000	1
Alok		Sinha	1	1996-09-16	NEPAL	M	800000	10000	1
Amit		Sinha	2	1998-02-15	NEPAL	M	900000	11000	2
Aditya		Singh	3	1999-02-15	NEPAL	M	900000	12000	3
Ram	Prasad	Mandal	4	1999-09-18	NEPAL	M	100000	13000	1

```
5 rows in set (0.00 sec)
```

```
mysql> desc employee;
```

Field	Type	Null	Key	Default	Extra
FName	varchar(15)	YES		NULL	
MName	varchar(15)	YES		NULL	
LName	varchar(15)	YES		NULL	
SSN	char(9)	YES		NULL	
Bod	date	YES		NULL	
Address	varchar(20)	YES		NULL	
Sex	char(2)	YES		NULL	
Salary	int	YES		NULL	
Supervisorssn	char(9)	YES		NULL	
DeptNum	int	YES		NULL	

```
10 rows in set (0.00 sec)
```

```
mysql> insert into employee values('&FName','&MName','&LName','&SSN','&Bod','&Address','&Sex','&Salary','&Supervisorssn','&DeptNum');
```

```
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 '&Salary','&Supervisorssn','&DeptNum)' at line 1
```

```
mysql> insert into employee(FName,MName,LName,SSN,Bod,Address,Sex,Salary,Supervisorssn,DeptNum) values ('Alok', '', 'Sinha',00001,'1996-09-16','NEPAL','M',800000,10000,1);  
Query OK, 1 row affected (1.41 sec)
```

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

FName	MName	LName	SSN	Bod	Address	Sex	Salary	Supervisorssn	DeptNum
Alok		Sinha	1	1996-09-16	NEPAL	M	800000	10000	1
Alok		Sinha	1	1996-09-16	NEPAL	M	800000	10000	1

```
2 rows in set (0.00 sec)
```

```
mysql> delete from employee where Sex='1';
```

```
Query OK, 0 rows affected (0.03 sec)
```

MySQL 8.0 Command Line Client

4 rows in set (0.00 sec)

```
mysql> show tables
-> ;
```

Tables_in_practice
department
employee
project

3 rows in set (0.10 sec)

```
mysql> desc department;
```

Field	Type	Null	Key	Default	Extra
DeptName	varchar(15)	YES		NULL	
DeptNum	int	YES		NULL	
ManagerSSN	char(9)	YES		NULL	
ManageStartDate	date	YES		NULL	

4 rows in set (0.52 sec)

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

DeptName	DeptNum	ManagerSSN	ManageStartDate
cse	1	11	2021-08-21
it	2	22	2021-08-20
bbs	3	33	2021-08-10

3 rows in set (0.28 sec)



```
mysql> desc employee;
```

Field	Type	Null	Key	Default	Extra
FName	varchar(15)	YES		NULL	
MName	varchar(15)	YES		NULL	
LName	varchar(15)	YES		NULL	
SSN	char(9)	YES		NULL	
Bod	date	YES		NULL	
Address	varchar(20)	YES		NULL	
Sex	char(2)	YES		NULL	
Salary	int	YES		NULL	
Supervisorssn	char(9)	YES		NULL	
DeptNum	int	YES		NULL	

10 rows in set (0.00 sec)

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

FName	MName	LName	SSN	Bod	Address	Sex	Salary	Supervisorssn	DeptNum
Alok		Sinha	1	1996-09-16	NEPAL	M	800000	10000	1
Alok		Sinha	1	1996-09-16	NEPAL	M	800000	10000	1
Amit		Sinha	2	1998-02-15	NEPAL	M	900000	11000	2
Aditya		Singh	3	1999-02-15	NEPAL	M	900000	12000	3
Ram	Prasad	Mandal	4	1999-09-18	NEPAL	M	100000	13000	1

5 rows in set (0.04 sec)

```
mysql> desc project;
```

Field	Type	Null	Key	Default	Extra
ProjectName	varchar(15)	YES		NULL	
ProjectNumber	int	YES		NULL	
ProjectLocation	varchar(15)	YES		NULL	
DeptNum	int	YES		NULL	

4 rows in set (0.00 sec)

```
mysql> select * from project;
```

ProjectName	ProjectNumber	ProjectLocation	DeptNum
pa	1	loca	1
pb	2	locb	2
pc	3	locc	3
pd	4	locd	2

4 rows in set (0.00 sec)

```
mysql>
```

```
mysql> select FName,MName,LName,SSN,Supervisorssn from employee;
```

FName	MName	LName	SSN	Supervisorssn
Alok		Sinha	1	10000
Alok		Sinha	1	10000
Amit		Sinha	2	11000
Aditya		Singh	3	12000
Ram	Prasad	Mandal	4	13000

```
5 rows in set (0.00 sec)
```

```
mysql> select * from employee where Bod='1996-09-16';
```

FName	MName	LName	SSN	Bod	Address	Sex	Salary	Supervisorssn	DeptNum
Alok		Sinha	1	1996-09-16	NEPAL	M	800000	10000	1
Alok		Sinha	1	1996-09-16	NEPAL	M	800000	10000	1

```
2 rows in set (0.00 sec)
```

```
mysql> select distinct(Salary) from employee;
```

Salary
800000
900000
100000

```
3 rows in set (0.05 sec)
```

```
mysql> select ManagerSSN,ManageStartDate from department where DeptName='cse';
```

ManagerSSN	ManageStartDate
11	2021-08-21

```
1 row in set (0.00 sec)
```

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

FName	MName	LName	SSN	Bod	Address	Sex	Salary	Supervisorssn	DeptNum
Alok		Sinha	1	1996-09-16	NEPAL	M	800000	10000	1
Alok		Sinha	1	1996-09-16	NEPAL	M	800000	10000	1
Amit		Sinha	2	1998-02-15	NEPAL	M	900000	11000	2
Aditya		Singh	3	1999-02-15	NEPAL	M	900000	12000	3
Ram	Prasad	Mandal	4	1999-09-18	NEPAL	M	100000	13000	1

```
5 rows in set (0.00 sec)
```

```
mysql> update employee set DeptNum=5 where FName='Ram';
Query OK, 1 row affected (0.60 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

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

FName	MName	LName	SSN	Bod	Address	Sex	Salary	Supervisorssn	DeptNum
Alok		Sinha	1	1996-09-16	NEPAL	M	800000	10000	1
Alok		Sinha	1	1996-09-16	NEPAL	M	800000	10000	1
Amit		Sinha	2	1998-02-15	NEPAL	M	900000	11000	2
Aditya		Singh	3	1999-02-15	NEPAL	M	900000	12000	3
Ram	Prasad	Mandal	4	1999-09-18	NEPAL	M	100000	13000	5

```
5 rows in set (0.00 sec)
```

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

FName	MName	LName	SSN	Bod	Address	Sex	Salary	Supervisorssn	DeptNum
Alok		Sinha	1	1996-09-16	NEPAL	M	800000	10000	1
Alok		Sinha	1	1996-09-16	NEPAL	M	800000	10000	1
Amit		Sinha	2	1998-02-15	NEPAL	M	900000	11000	2
Aditya		Singh	3	1999-02-15	NEPAL	M	900000	12000	3
Ram	Prasad	Mandal	4	1999-09-18	NEPAL	M	100000	13000	5

```
5 rows in set (0.00 sec)
```

```
mysql> alter table employee add Phone int;
Query OK, 0 rows affected (1.48 sec)
Records: 0 Duplicates: 0 Warnings: 0
```



```
mysql> update employee set Phone = '987456321' where FName='Alok';
```

```
Query OK, 2 rows affected (0.44 sec)
```

```
Rows matched: 2 Changed: 2 Warnings: 0
```

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

FName	MName	LName	SSN	Bod	Address	Sex	Salary	Supervisorssn	DeptNum	Phone
Alok		Sinha	1	1996-09-16	NEPAL	M	800000	10000	1	987456321
Alok		Sinha	1	1996-09-16	NEPAL	M	800000	10000	1	987456321
Amit		Sinha	2	1998-02-15	NEPAL	M	900000	11000	2	NULL
Aditya		Singh	3	1999-02-15	NEPAL	M	900000	12000	3	NULL
Ram	Prasad	Mandal	4	1999-09-18	NEPAL	M	100000	13000	5	NULL

```
5 rows in set (0.15 sec)
```

```
mysql>
```

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

FName	MName	LName	SSN	Bod	Address	Sex	Salary	Supervisorssn	DeptNum	Phone
Alok		Sinha	1	1996-09-16	NEPAL	M	800000	10000	1	NULL
Alok		Sinha	1	1996-09-16	NEPAL	M	800000	10000	1	NULL
Amit		Sinha	2	1998-02-15	NEPAL	M	900000	11000	2	NULL
Aditya		Singh	3	1999-02-15	NEPAL	M	900000	12000	3	NULL
Ram	Prasad	Mandal	4	1999-09-18	NEPAL	M	100000	13000	5	NULL

```
5 rows in set (1.22 sec)
```

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

FName	MName	LName	SSN	Bod	Address	Sex	Salary	Supervisorssn	DeptNum	Phone
Alok		Sinha	1	1996-09-16	NEPAL	M	800000	10000	1	987456321
Alok		Sinha	1	1996-09-16	NEPAL	M	800000	10000	1	987456321
Amit		Sinha	2	1998-02-15	NEPAL	M	900000	11000	2	987456387
Aditya		Singh	3	1999-02-15	NEPAL	M	900000	12000	3	987456341
Ram	Prasad	Mandal	4	1999-09-18	NEPAL	M	100000	13000	5	987456333

```
5 rows in set (0.00 sec)
```

```
mysql> alter table employee drop column phone;
```

```
Query OK, 0 rows affected (2.84 sec)
```

```
Records: 0 Duplicates: 0 Warnings: 0
```

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

FName	MName	LName	SSN	Bod	Address	Sex	Salary	Supervisorssn	DeptNum
Alok		Sinha	1	1996-09-16	NEPAL	M	800000	10000	1
Alok		Sinha	1	1996-09-16	NEPAL	M	800000	10000	1
Amit		Sinha	2	1998-02-15	NEPAL	M	900000	11000	2
Aditya		Singh	3	1999-02-15	NEPAL	M	900000	12000	3
Ram	Prasad	Mandal	4	1999-09-18	NEPAL	M	100000	13000	5

```
5 rows in set (0.00 sec)
```

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

FName	MName	LName	SSN	Bod	Address	Sex	Salary	Supervisorssn	DeptNum	Phone
Alok		Sinha	1	1996-09-16	NEPAL	M	800000	10000	1	987456321
Alok		Sinha	1	1996-09-16	NEPAL	M	800000	10000	1	987456321
Amit		Sinha	2	1998-02-15	NEPAL	M	900000	11000	2	NULL
Aditya		Singh	3	1999-02-15	NEPAL	M	900000	12000	3	NULL
Ram	Prasad	Mandal	4	1999-09-18	NEPAL	M	100000	13000	5	NULL

```
5 rows in set (0.15 sec)
```

```
mysql> update employee set Phone = '987456387' where FName='Amit';
```

```
Query OK, 1 row affected (0.07 sec)
```

```
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> update employee set Phone = '987456341' where FName='Aditya';
```

```
Query OK, 1 row affected (0.07 sec)
```

```
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> update employee set Phone = '987456333' where FName='Ram';
```

```
Query OK, 1 row affected (0.22 sec)
```

```
Rows matched: 1 Changed: 1 Warnings: 0
```

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

FName	MName	LName	SSN	Bod	Address	Sex	Salary	Supervisorssn	DeptNum	Phone
Alok		Sinha	1	1996-09-16	NEPAL	M	800000	10000	1	987456321
Alok		Sinha	1	1996-09-16	NEPAL	M	800000	10000	1	987456321
Amit		Sinha	2	1998-02-15	NEPAL	M	900000	11000	2	987456387
Aditya		Singh	3	1999-02-15	NEPAL	M	900000	12000	3	987456341
Ram	Prasad	Mandal	4	1999-09-18	NEPAL	M	100000	13000	5	987456333

```
5 rows in set (0.00 sec)
```

```
mysql> desc department;
```

Field	Type	Null	Key	Default	Extra
DeptName	varchar(15)	YES		NULL	
DeptNum	int	YES		NULL	
ManagerSSN	char(9)	YES		NULL	
ManageStartDate	date	YES		NULL	

```
4 rows in set (0.06 sec)
```

```
mysql> alter table department rename dept;
```

```
Query OK, 0 rows affected (1.20 sec)
```

```
mysql> show tables;
```

Tables_in_practice
dept
employee
project

```
3 rows in set (0.00 sec)
```

```
mysql> create table copydept as (select * from dept);
```

```
Query OK, 3 rows affected (0.84 sec)
```

```
Records: 3 Duplicates: 0 Warnings: 0
```

```
mysql> select * from copydept;
```

DeptName	DeptNum	ManagerSSN	ManageStartDate
cse	1	11	2021-08-21
it	2	22	2021-08-20
bbt	3	33	2021-08-10

```
3 rows in set (0.00 sec)
```

```
mysql> desc copydept;
```

Field	Type	Null	Key	Default	Extra
DeptName	varchar(15)	YES		NULL	
DeptNum	int	YES		NULL	
ManagerSSN	char(9)	YES		NULL	
ManageStartDate	date	YES		NULL	

```
4 rows in set (0.21 sec)
```



```
mysql> show tables;
```

```
+-----+  
| Tables_in_practice |  
+-----+  
| copydept            |  
| dept                |  
| employee            |  
| project             |  
+-----+
```

```
4 rows in set (0.07 sec)
```

```
mysql> drop table copydept;
```

```
Query OK, 0 rows affected (1.42 sec)
```

```
mysql> show tables;
```

```
+-----+  
| Tables_in_practice |  
+-----+  
| dept               |  
| employee           |  
| project            |  
+-----+
```

```
3 rows in set (0.00 sec)
```



```
mysql> select * from copydept;
```

DeptName	DeptNum	ManagerSSN	ManageStartDate
cse	1	11	2021-08-21
it	2	22	2021-08-20
bbt	3	33	2021-08-10

```
3 rows in set (0.00 sec)
```

```
mysql> delete from copydept;
```

```
Query OK, 3 rows affected (0.11 sec)
```

```
mysql> select * from copydept;
```

```
Empty set (0.30 sec)
```