

```
mysql> create database insurance;  
Query OK, 1 row affected (0.04 sec)
```

```
mysql> use insurance;  
Database changed
```

```
mysql> create table person(driver_id varchar(10),name varchar(20),address varchar(30),primary key(driver_id));  
Query OK, 0 rows affected (0.07 sec)
```

```
mysql> show tables;
```

```
+-----+  
| Tables_in_insurance |  
+-----+  
| person               |  
+-----+
```

```
1 row in set (0.03 sec)
```

```
mysql> desc person;
```

```
+-----+-----+-----+-----+-----+-----+  
| Field      | Type          | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| driver_id  | varchar(10)   | NO   | PRI | NULL     |       |  
| name       | varchar(20)   | YES  |     | NULL     |       |  
| address    | varchar(30)   | YES  |     | NULL     |       |  
+-----+-----+-----+-----+-----+-----+
```

```
3 rows in set (0.03 sec)
```

```
mysql> create table car(reg_num varchar(10),model varchar(10),year int,primary key(reg_num));  
Query OK, 0 rows affected (0.06 sec)
```

```
mysql> create table accident(report_num int,accident_date date,location varchar(20),primary key(report_num));  
Query OK, 0 rows affected (0.07 sec)
```

```
mysql> create table participated(driver_id varchar(10),reg_num varchar(10),report_num int,damage_amount int,primary key(driver_id,reg_num,report_num),foreign key(driver_id) references person(driver_id),foreign key(reg_num) references
```

```
mysql> create participated(driver_id varchar(10),reg_num varchar(10),report_
num int,damage_amount int,primary key(driver_id,reg_num,report_num),foreign
key(driver_id) references person(driver_id),foreign key(reg_num) references
car(reg_num),foreign key(report_num) refernces accident(report_num));
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 'participated(driver_id varchar(10),reg_num varchar(10),report_num int,damage_amo' at line 1
mysql> create table participated(driver_id varchar(10), reg_num varchar(10),
```

```
    -> report_num int, damage_amount int,
    -> primary key(driver_id, reg_num, report_num),
    ->
    -> foreign key(driver_id) references person(driver_id),
    -> foreign key(reg_num) references car(reg_num),
    -> foreign key(report_num) references accident(report_num));
```

Query OK, 0 rows affected (0.15 sec)

```
mysql> create table owns(driver_id varchar(10),reg_num varchar(10),primary key(driver_id,reg_num),foreign key(driver_id) references p
erson(driver_id),fo
reign key(reg_num) references car(reg_num));
Query OK, 0 rows affected (0.12 sec)
```

```
mysql> show tables;
```

```
+-----+
| Tables_in_insurance |
+-----+
| accident             |
| car                  |
| owns                 |
| participated         |
| person               |
+-----+
```

5 rows in set (0.00 sec)

```
mysql> desc accident;
```

Field	Type	Null	Key	Default	Extra
report_num	int	NO	PRI	NULL	
accident_date	date	YES		NULL	
location	varchar(20)	YES		NULL	

```
3 rows in set (0.01 sec)
```

```
mysql> desc car;
```

Field	Type	Null	Key	Default	Extra
reg_num	varchar(10)	NO	PRI	NULL	
model	varchar(10)	YES		NULL	
year	int	YES		NULL	

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

```
mysql> desc owns;
```

Field	Type	Null	Key	Default	Extra
driver_id	varchar(10)	NO	PRI	NULL	
reg_num	varchar(10)	NO	PRI	NULL	

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

```
mysql> desc participated;
```

Field	Type	Null	Key	Default	Extra
driver_id	varchar(10)	NO	PRI	NULL	
reg_num	varchar(10)	NO	PRI	NULL	
report_num	int	NO	PRI	NULL	
damage_amount	int	YES		NULL	

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

```
mysql> desc person;
```

Field	Type	Null	Key	Default	Extra
driver_id	varchar(10)	NO	PRI	NULL	
name	varchar(20)	YES		NULL	
address	varchar(30)	YES		NULL	

```
3 rows in set (0.01 sec)
```

```
mysql> insert into person values('A01','Richard','Srinivas Nagar');  
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into person values('A02','Pradeep','Rajajinagar');  
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into person values('A03','Smith','Ashoknagar');  
Query OK, 1 row affected (0.04 sec)
```

```
mysql> insert into person values('A04','Venu','N.R.Colony');  
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into person values('A05','John','Hanumanth Nagar');  
Query OK, 1 row affected (0.03 sec)
```

```
mysql> select *from person;
```

driver_id	name	address
A01	Richard	Srinivas Nagar
A02	Pradeep	Rajajinagar
A03	Smith	Ashoknagar
A04	Venu	N.R.Colony
A05	John	Hanumanth Nagar

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

```
mysql> insert car values('KA031181', 'Lancer', '1957');  
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert car values('KA052250', 'Indica', '1990');  
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert car values('KA095477', 'Toyota', '1998');  
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert car values('KA053408', 'Honda', '2008');  
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert car values('KA041702', 'Audi', '2005');  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select *from car;
```

reg_num	model	year
KA041702	Audi	2005
KA052250	Indica	1990
KA053408	Honda	2008
KA095477	Toyota	1998
KA031181	Lancer	1957

5 rows in set (0.00 sec)

```
mysql> insert into accident values('11','01-01-03','Mysore Road');
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into accident values('12','02-02-04','Southend Circle');
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into accident values('13','21-01-03','Bulltemple Road');
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into accident values('14','17-02-08','Mysore Road');
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into accident values('15','04-03-05','Kanakpura Road');
Query OK, 1 row affected (0.03 sec)
```

```
mysql> select *from accident;
```

report_num	accident_date	location
11	2001-01-03	Mysore Road
12	2002-02-04	Southend Circle
13	2021-01-03	Bulltemple Road
14	2017-02-08	Mysore Road
15	2004-03-05	Kanakpura Road

5 rows in set (0.00 sec)

```
mysql> insert into owns values('A01','KA052250');
Query OK, 1 row affected (0.04 sec)
```

```
mysql> insert into owns values('A02','KA053408');
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into owns values('A03','KA031181');
```

```
mysql> insert into owns values('A02','KA053408');
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into owns values('A03','KA031181');
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`insurance`.`owns`, CONSTRAINT `owns_ibfk_2` FOREIGN KEY (`reg_num`) REFERENCES `car` (`reg_num`))
mysql> insert into owns values('A03','KA095477');
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into owns values('A04','KA031181');
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`insurance`.`owns`, CONSTRAINT `owns_ibfk_2` FOREIGN KEY (`reg_num`) REFERENCES `car` (`reg_num`))
mysql> insert into owns values('A04','KA041702');
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into owns values('A05','KA031181');
Query OK, 1 row affected (0.03 sec)
```

```
mysql> select *from owns;
```

driver_id	reg_num
A04	KA041702
A01	KA052250
A02	KA053408
A03	KA095477
A05	KA031181

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

```
mysql> insert into participated values('A01','KA052250','11','10000');
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into participated values('A02','KA053408','12','50000');
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into participated values('A03','KA095477','13','25000');
```

```

-> ^C
mysql> insert into participated values('A03','KA095477','13','25000');
Query OK, 1 row affected (0.03 sec)

mysql> insert into participated values('A01','KA052250','11',10000)
-> ^C
mysql> insert into participated values('A04','KA031181','14','3000');
Query OK, 1 row affected (0.01 sec)

mysql> insert into participated values('A05','KA041702','15','5000');
Query OK, 1 row affected (0.03 sec)

mysql> select *from participated;
+-----+-----+-----+-----+
| driver_id | reg_num | report_num | damage_amount |
+-----+-----+-----+-----+
| A01      | KA052250 | 11        | 10000         |
| A02      | KA053408 | 12        | 50000         |
| A03      | KA095477 | 13        | 25000         |
| A04      | KA031181 | 14        | 3000          |
| A05      | KA041702 | 15        | 5000          |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

```



```
mysql> update participated set damage=25000 where reg_num='KA053408' and report_num=12;  
ERROR 1054 (42S22): Unknown column 'damage' in 'field list'
```

```
mysql> update participated set damage_amount=25000 where reg_num='KA053408'  
and report_num=12;
```

```
Query OK, 1 row affected (0.04 sec)
```

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

```
mysql> commit;
```

```
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> select *from participated;
```

driver_id	reg_num	report_num	damage_amount
A01	KA052250	11	10000
A02	KA053408	12	25000
A03	KA095477	13	25000
A04	KA031181	14	3000
A05	KA041702	15	5000

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

```
mysql> insert into accident values('16','15-03-08','Domlur');
```

```
Query OK, 1 row affected (0.03 sec)
```

```
mysql> select *from accident;
```

report_num	accident_date	location
11	2001-01-03	Mysore Road
12	2002-02-04	Southend Circle
13	2021-01-03	Bulltemple Road
14	2017-02-08	Mysore Road
15	2004-03-05	Kanakpura Road
16	2015-03-08	Domlur

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

```
mysql> select accident_date,location from accident;
```

accident_date	location
2001-01-03	Mysore Road
2002-02-04	Southend Circle
2021-01-03	Bulltemple Road
2017-02-08	Mysore Road
2004-03-05	Kanakpura Road
2015-03-08	Domlur

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

```
mysql> select driver_id from participated where damage_amount>=25000;
```

driver_id
A02
A03

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