

```
mysql> CREATE TABLE PRODUCT(PID varchar(10),PNAME varchar(10),UNITPRICE
varchar(10),MANUFACTURER varchar(10),CATEGORY varchar(10),COUNTRY varchar(10));
```

```
mysql> DESC PRODUCT;
```

Field	Type	Null	Key	Default	Extra
PID	varchar(10)	YES		NULL	
PNAME	varchar(10)	YES		NULL	
UNITPRICE	varchar(10)	YES		NULL	
MANUFACTURER	varchar(10)	YES		NULL	
CATEGORY	varchar(10)	YES		NULL	
COUNTRY	varchar(10)	YES		NULL	

```
mysql> INSERT INTO PRODUCT
VALUES('101','IPHONE','80000','APPLE','MOBILE','USA'),('102','MI6','32000','XIAOMI',
,'MOBILE','CHINA'),('173','IDEAPAD','45000','LENOVO','LAPTOP','KOREA'),('178','J
AZZ','2000','ZOOOK','SPEAKER','GERMANY'),('217','CRUISER','5000','TITAN','WATCH',
'INDIA'),('200','ZAPPA','10000','PHILLIPS','HOME APP','KOREA');
```

```
mysql> SELECT * FROM PRODUCT;
```

PID	PNAME	UNITPRICE	MANUFACTURER	CATEGORY	COUNTRY
101	IPHONE	80000	APPLE	MOBILE	USA
102	MI6	32000	XIAMI	MOBILE	CHINA
173	IDEAPAD	45000	LENOVO	LAPTOP	KOREA
178	JAZZ	2000	ZOOOK	SPEAKER	GERMANY
217	CRUISER	5000	TITAN	WATCH	INDIA
200	ZAPPA	10000	PHILLIPS	HOME APP	KOREA

```
mysql> CREATE VIEW V1 AS SELECT PID,PNAME,CATEGORY FROM PRODUCT;
```

```
mysql> SELECT * FROM V1;
```

PID	PNAME	CATEGORY
101	IPHONE	MOBILE
102	MI6	MOBILE
173	IDEAPAD	LAPTOP
178	JAZZ	SPEAKER
217	CRUISER	WATCH
200	ZAPPA	HOME APP

```
mysql> SELECT PNAME,COUNTRY FROM V1 WHERE CATEGORY='HOME APP';
ERROR 1054 (42S22): Unknown column 'COUNTRY' in 'field list'
```

```
mysql> SELECT * FROM V1;
```

PID	PNAME	CATEGORY
101	IPHONE	MOBILE
102	MI6	MOBILE
173	IDEAPAD	LAPTOP
178	JAZZ	SPEAKER
217	CRUISER	WATCH
200	ZAPPA	HOME APP
501	XY505	MOBILE

```
mysql> UPDATE V1 SET PNAME='XSERIES' WHERE PID='200';
Query OK, 1 row affected (0.28 sec)
```

```
mysql> SELECT * FROM V1;
```

PID	PNAME	CATEGORY
101	IPHONE	MOBILE
102	MI6	MOBILE
173	IDEAPAD	LAPTOP
178	JAZZ	SPEAKER
217	CRUISER	WATCH
200	XSERIES	HOME APP
501	XY505	MOBILE

```
mysql> ALTER TABLE PRODUCT ADD PRIMARY KEY (PID);  
Query OK, 0 rows affected (1.59 sec)
```

```
mysql> CREATE VIEW V2 AS SELECT PNAME,UNITPRICE,CATEGORY FROM PRODUCT;
```

```
mysql> SELECT * FROM V2;
```

PNAME	UNITPRICE	CATEGORY
IPHONE	80000	MOBILE
MI6	32000	MOBILE
IDEAPAD	45000	LAPTOP
JAZZ	2000	SPEAKER
XSERIES	10000	HOME APP
CRUISER	5000	WATCH
XY505	NULL	MOBILE

```
mysql> INSERT INTO V2 VALUES('ONEPLUS','50000','MOBILE');  
Query OK, 1 row affected (0.14 sec)
```

```
mysql> SELECT * FROM V2;
```

PNAME	UNITPRICE	CATEGORY
IPHONE	80000	MOBILE
MI6	32000	MOBILE
IDEAPAD	45000	LAPTOP
JAZZ	2000	SPEAKER
XSERIES	10000	HOME APP
CRUISER	5000	WATCH
XY505	NULL	MOBILE
ONEPLUS	50000	MOBILE

```
mysql> DELETE FROM PRODUCT WHERE MANUFACTURER='LENOVO';  
Query OK, 1 row affected (0.08 sec)
```

```
mysql> SELECT * FROM PRODUCT;
```

PID	PNAME	UNITPRICE	MANUFACTURER	CATEGORY	COUNTRY
101	IPHONE	80000	APPLE	MOBILE	USA
102	MI6	32000	XIAMI	MOBILE	CHINA
178	JAZZ	2000	ZOOOK	SPEAKER	GERMANY
200	XSERIES	10000	PHILLIPS	HOME APP	KOREA
217	CRUISER	5000	TITAN	WATCH	INDIA
501	XY505	NULL	NULL	MOBILE	NULL

```
mysql> CREATE VIEW V3 AS SELECT EID,ENAME,SALARY,DEPTID,DEPTNAME FROM EMPLOYEE;  
Query OK, 3 rows affected (1.00 sec)
```

mysql> SELECT * FROM V3;

EID	ENAME	SALARY	DEPTID	DEPTNAME
100	ADVAITH	25000	10	AI
101	AKHIL	20000	20	AI
102	AKSHAY	15000	30	CS

mysql> UPDATE V3 SET SALARY=SALARY+1000 WHERE DEPTID='10';
Query OK, 1 row affected (0.10 sec)

mysql> SELECT * FROM V3;

EID	ENAME	SALARY	DEPTID	DEPTNAME
100	ADVAITH	26000	10	AI
101	AKHIL	20000	20	AI
102	AKSHAY	15000	30	CS

mysql> ALTER TABLE DEPARTMENT ADD PRIMARY KEY(DEPTID);

mysql> ALTER TABLE EMPLOYEE ADD PRIMARY KEY(EID);

mysql> SELECT * FROM DEPARTMENT;

DEPTNO	DEPTNAME	STAFFNO	DEPTID
D1	S101	CS	10
D2	S110	CS	20
D3	S201	EEE	30

mysql> ALTER TABLE EMPLOYEE ADD FOREIGN KEY(DEPTID) REFERENCES
DEPARTMENT(DEPTID);
Query OK, 3 rows affected (2.30 sec)

mysql> INSERT INTO V3 VALUES('103','ARJUN',21000,'20','CS');
Query OK, 1 row affected (0.08 sec)

mysql> SELECT * FROM V3;

EID	ENAME	SALARY	DEPTID	DEPTNAME
100	ADVAITH	26000	10	AI
101	AKHIL	20000	20	AI
102	AKSHAY	15000	30	CS
103	ARJUN	21000	20	CS