```
mysgl> create table Event(Event ID int, Duration int, Status Code
varchar(5), Reason_Code varchar(5));
Query OK, 0 rows affected (0.03 sec)
mysql> create table Status(Status_Code varchar(5), Name varchar(20));
Query OK, 0 rows affected (0.02 sec)
mysql> create table ReadyReason(Reason_Code varchar(5), Name
varchar(20));
Query OK, 0 rows affected (0.02 sec)
mysql> create table DelayReason(Reason Code varchar(5), Name
varchar(20));
Query OK, 0 rows affected (0.03 sec)
mysql> create table SpareReason(Reason Code varchar(5), Name
varchar(20));
Query OK, 0 rows affected (0.02 sec)
mysql> create table DownReason(Reason_Code varchar(5), Name
varchar(20));
Query OK, 0 rows affected (0.02 sec)
mysql> insert into Event(Event_ID, Duration, Status_Code, Reason_Code)
values(1,5,'R','S'),(2,60,'D1','S'),(3,10,'S','C'),(4,20,'D2','H'),(5,15,'S','H'),(6,25,'D1','V'),(7,20,'R','S'),(8,60,'D2','B');
Query OK, 8 rows affected (0.02 sec)
Records: 8 Duplicates: 0 Warnings: 0
mysql> insert into Status(Status Code, Name) values('R','Ready'),
('D1', 'Delay'), ('S', 'Spare'), ('D2', 'Down');
Query OK, 4 rows affected (0.00 sec)
Records: 4 Duplicates: 0 Warnings: 0
mysql> insert into SpareReason(Reason_Code, Name) values('C','Cold
Spare'),('H','Hot Spare');
Query OK, 2 rows affected (0.01 sec)
Records: 2 Duplicates: 0 Warnings: 0
mysql> insert into DownReason(Reason_Code, Name) values('B', 'Broken
Part'),('H','Over Heated');
Query OK, 2 rows affected (0.00 sec)
Records: 2 Duplicates: 0 Warnings: 0
mysql> select * from Event;
| Event_ID | Duration | Status_Code | Reason_Code |
               5 | R

60 | D1

10 | S

20 | D2

15 | S

25 | D1

20 | R
                                    | S
         2 |
         3 |
                                     | C
        4 |
                                    | H
```

| H | V

| S

| B

5 |

6 | 7 |

8 | 60 | D2

```
8 rows in set (0.00 sec)
mysql> select * from Status;
+----+
 Status_Code | Name |
             | Ready |
| D1
             | Delay |
| S
             | Spare |
| D2
           | Down |
4 rows in set (0.00 sec)
mysql> select * from ReadyReason;
+----+
| Reason_Code | Name
             | Standby |
             | Running |
2 rows in set (0.00 sec)
mysql> select * from DelayReason;
| Reason_Code | Name
             | No Spare |
             | Vendor
2 rows in set (0.00 sec)
mysql> select * from SpareReason;
+----+
| Reason_Code | Name
| C
             | Cold Spare |
| H
             | Hot Spare |
2 rows in set (0.00 sec)
mysql> select * from DownReason;
 Reason_Code | Name
| B
             | Broken Part |
| H
            | Over Heated |
2 rows in set (0.00 sec)
mysql> create table temp select Status_Code,
ReadyReason.Reason_Code, ReadyReason.Name from Status cross join
ReadyReason;
Query OK, 8 rows affected (0.03 sec)
Records: 8 Duplicates: 0 Warnings: 0
```

mysql> insert into temp(Status_Code, Reason_Code, Name) select
Status_Status_Code, DelayReason_Reason_Code, DelayReason.Name from
Status cross join DelayReason;

Query OK, 8 rows affected (0.01 sec)

Records: 8 Duplicates: 0 Warnings: 0

mysql> insert into temp(Status_Code, Reason_Code, Name) select
Status_Status_Code, SpareReason_Reason_Code, SpareReason.Name from
Status cross join SpareReason;

Query OK, 8 rows affected (0.00 sec) Records: 8 Duplicates: 0 Warnings: 0

mysql> insert into temp(Status_Code, Reason_Code, Name) select
Status_Status_Code, DownReason_Reason_Code, DownReason.Name from Status
cross join DownReason;

Query OK, 8 rows affected (0.01 sec) Records: 8 Duplicates: 0 Warnings: 0

mysql> select * from temp;

#=====================================	* 110111 tellip; -+				
Status_Code	Reason_Code	Name			
R	S	Standby			
R	R	Running			
D1	S	Standby			
D1	R	Running			
S	S	Standby			
S	R	Running			
D2	S	Standby			
D2	R	Running			
R	S	No Spare			
R D1	V S	Vendor			
D1 D1	5 V	No Spare Vendor			
D1 S	V S	No Spare			
3 S	3 V	No Spare			
3 D2	V S	No Spare			
D2 D2	3 V	Vendor			
I R	l C	Cold Spare			
I R	C H	Hot Spare			
l D1	l C	Cold Spare			
D1	l H	Hot Spare			
S	l C	Cold Spare			
I S	~ H	Hot Spare			
l D2	i C	Cold Spare			
l D2	i i	Hot Spare			
i R	l B	Broken Part			
i R	i H	Over Heated			
D1	l B	Broken Part			
D1	i H	Over Heated			
İS	l B	Broken Part			
S	H	Over Heated			
D2	l B	Broken Part			
D2	Н	Over Heated			

32 rows in set (0.00 sec)

mysql> create table QueryResult select event.event_id, event.duration, event.Status_Code, event.Reason_Code, status.name from event,status where event.status_Code=Status.Status_Code;

Query OK, 8 rows affected (0.02 sec)

Records: 8 Duplicates: 0 Warnings: 0

mysql> select * from QueryResult;

+	event id	⊦ duration	+ Status_Code	+ I Reason Code	++ name
+		 	+		 +
-	1	5	R	S	Ready
	2	[60	D1	S	Delay
	3	10	S	C	Spare
	4	20	D2	H	Down
ļ	5	15	S	H	Spare
ļ	6	25	D1	l V	Delay
ļ	/	20	R	S	Ready
ļ	8	60	D2	В	Down

8 rows in set (0.00 sec)

mysql> alter table QueryResult add column(Reason_Name varchar(20));

Query OK, 0 rows affected (0.07 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> update QueryResult set Reason_Name= temp.Name on QueryResult.Status_Code=temp.Status_Code and

QueryResult.Reason_Code=temp.Reason_Code;

mysql> alter table QueryResult drop duration;

Query OK, 0 rows affected (0.07 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table QueryResult drop Status_Code;

Query OK, 0 rows affected (0.06 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> select * from QueryResult;

1 S	4	 	- 		
2 S Delay NULL 3 C Spare NULL		event_id	Reason_Code	name	Reason_Name
4 H	# 	1 2 3 4 5 6 7		Delay Spare Down Spare Delay Ready	NULL NULL NULL NULL NULL NULL

8 rows in set (0.00 sec)