دستور کار سری 4 آزمایشگاه پایگاه داده

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mysql> use erfan; Database changed

mysql> CREATE TABLE VACCINE (VACCINE_ID INT UNSIGNED NOT NULL AUTO_INCREMENT, NAME VARCHAR(255) NOT NULL, COUNTRY VARCHAR(255) NOT NULL, QUANTITY INT NOT NULL, PRIMARY KEY(VACCINE_ID)); Query OK, 0 rows affected (0.01 sec)

```
mysql> ALTER TABLE PERSON
-> ADD VACCINE_ID INT UNSIGNED;
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> ALTER TABLE PERSON ADD FOREIGN KEY (VACCINE_ID) REFRENCES VACCINE(VACCINE_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 'REFRENCES VACCINE(VACCINE_ID)' at line 1
mysql> ALTER TABLE PERSON ADD FOREIGN KEY (VACCINE_ID) REFERENCES VACCINE(VACCINE_ID);
Query OK, 10 rows affected (0.03 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

اپدیت کردن PERSON :

```
mysql> UPDATE PERSON
   -> SET VACCINE_ID=1 WHERE PERSON_ID=5;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> UPDATE PERSON
   -> SET VACCINE ID=2 WHERE PERSON ID=1;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> UPDATE PERSON
   -> SET VACCINE_ID=2 WHERE PERSON_ID=9;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> UPDATE PERSON
   -> SET VACCINE_ID=3 WHERE PERSON_ID=10;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

PERSON_ID	LAST_NAME	FIRST_NAME	BIRTH	DEATH	GENDER	VACCINE_ID
1	+ ALAVI	 ALI	+ 1990-11-12	+ NULL	H MALE	+ 2
2	MASUMI	FATEMEH	1986-05-21	NULL	FEMALE	NULL
3	RAFIEI	REZA	1967-01-08	2022-07-10	MALE	NULL
4	EHSANI	NAZANIN	2001-08-16	NULL	FEMALE	NULL
5	SOLEIMANI	MOHAMMAD	1995-03-01	NULL	MALE	1
6	SANAYI	SOLMAZ	2005-09-09	NULL	FEMALE	NULL
7	HOSSEINI	NASER	1974-12-26	NULL	MALE	NULL
8	JABBARI	HEDIYEH	1981-07-18	2020-04-03	FEMALE	NULL
9	OLADI	AMIR	2010-02-06	NULL	MALE	2
10	BASATI	ATOUSA	1996-10-28	NULL	FEMALE	3

ı				

PERSON_ID	ysql> SELECT * -> FROM PERSON LEFT JOIN VACCINE ON PERSON.VACCINE_ID=VACCINE.VACCINE_ID;										
2 MASUMI FATEMEH 1986-05-21 NULL FEMALE NULL NUL	PERSON_ID	LAST_NAME	FIRST_NAME	BIRTH	DEATH	GENDER	VACCINE_ID	VACCINE_ID	NAME	COUNTRY	QUANTITY
3 RAFIEI REZA 1967-01-08 2022-07-10 MALE NULL NU	1	ALAVI	ALI	1990-11-12	NULL	MALE	2	2	PFIZER	GERMANY/USA	4013
4 EHSANI NAZANIN 2001-08-16 NULL FEMALE NULL NULL NULL NULL NULL NULL NULL NU	2	MASUMI	FATEMEH	1986-05-21	NULL	FEMALE	NULL	NULL	NULL	NULL	NULL
5 SOLEIMANI MCHAMMAD 1995-03-01 NULL MALE 1 1 SINOPHARM CHINA 5920300 6 SANIAYI SOLMAZ 2005-090-09 NULL FEMALE NULL NULL <t< td=""><td>3 </td><td>RAFIEI</td><td>REZA</td><td>1967-01-08</td><td>2022-07-10</td><td>MALE</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td></t<>	3	RAFIEI	REZA	1967-01-08	2022-07-10	MALE	NULL	NULL	NULL	NULL	NULL
6 SANAYI SOLMAZ 2005-09-09 NULL FEMALE NULL NULL NULL NULL NULL NULL NULL 7 HOSSEINI NASER 1974-12-26 NULL MALE NULL NULL NULL NULL NULL NULL 8 JABBARI HEDIYEH 1981-07-18 2020-04-03 FEMALE NULL NULL NULL NULL NULL NULL NULL NU	4	EHSANI	NAZANIN	2001-08-16	NULL	FEMALE	NULL	NULL	NULL	NULL	NULL
7 HOSSEINI NASER 1974-12-26 NULL MALE NULL NULL NULL NULL NULL 8 JABBARI HEDIYEH 1981-07-18 2020-04-03 FEMALE NULL NULL NULL NULL NULL 9 OLADI AMIR 2010-02-06 NULL MALE 2 2 PFIZER GERMANY/USA 4013	5	SOLEIMANI	MOHAMMAD	1995-03-01	NULL	MALE	1	1	SINOPHARM	CHINA	5920300
8 JABBARI HEDIYEH 1981-97-18 2020-04-03 FEMALE NULL NULL NULL NULL NULL 9 OLADI AMIR 2010-02-06 NULL MALE 2 2 PFIZER GERMANY/USA 4013	6	SANAYI	SOLMAZ	2005-09-09	NULL	FEMALE	NULL	NULL	NULL	NULL	NULL
9 OLADI AMIR 2010-02-06 NULL MALE 2 2 PFIZER GERMANY/USA 4013	7	HOSSEINI	NASER	1974-12-26	NULL	MALE	NULL	NULL	NULL	NULL	NULL
	8	JABBARI	HEDIYEH	1981-07-18	2020-04-03	FEMALE	NULL	NULL	NULL	NULL	NULL
10 BASATI ATOUSA 1996-10-28 NULL FEMALE 3 3 ASTRAZENECA UK/BELGIUM 234041	9	OLADI	AMIR	2010-02-06	NULL	MALE	2	2	PFIZER	GERMANY/USA	4013
	10	BASATI	ATOUSA	1996-10-28	NULL	FEMALE	3	3	ASTRAZENECA	UK/BELGIUM	234041

10 rows in set (0.00 sec)

mysql> SELECT * -> FROM PERSON RIGHT JOIN VACCINE ON PERSON.VACCINE_ID=VACCINE_VACCINE_ID;										
PERSON_ID	LAST_NAME	FIRST_NAME	BIRTH	DEATH	GENDER	VACCINE_ID	VACCINE_ID	NAME	COUNTRY	QUANTITY
5	SOLEIMANI	MOHAMMAD	1995-03-01	NULL	MALE	1	1	SINOPHARM	CHINA	5920300
1	ALAVI	ALI	1990-11-12	NULL	MALE	2	2	PFIZER	GERMANY/USA	4013
9	OLADI	AMIR	2010-02-06	NULL	MALE	2	2	PFIZER	GERMANY/USA	4013
10	BASATI	ATOUSA	1996-10-28	NULL	FEMALE	3	3	ASTRAZENECA	UK/BELGIUM	234041
NULL	NULL	NULL	NULL	NULL	NULL	NULL	4	SPUTNIK	RUSSIA	1032
+		+	+	+		+	+			
5 rows in set	(0 00 sec)									

r	mysql> SELECT * -> FROM PERSON INNER JOIN VACCINE ON PERSON.VACCINE_ID=VACCINE_VACCINE_ID;										
	PERSON_ID	LAST_NAME	FIRST_NAME	BIRTH	DEATH	GENDER	VACCINE_ID	VACCINE_ID	NAME	COUNTRY	QUANTITY
	5 1 9 10	SOLEIMANI ALAVI OLADI BASATI	MOHAMMAD ALI AMIR ATOUSA	1995-03-01 1990-11-12 2010-02-06 1996-10-28	NULL NULL NULL NULL	MALE MALE MALE FEMALE	1 2 2 3	1 2 2 2 3	SINOPHARM PFIZER PFIZER ASTRAZENECA	CHINA GERMANY/USA GERMANY/USA UK/BELGIUM	5920300 4013 4013 234041
,	t cours in set (8 88 sec)										

mysql> SELECT PERSON.FIRST_NAME, PERSON.LAST_NAME, VACCINE.COUNTRY
-> FROM PERSON INNER JOIN VACCINE ON PERSON.VACCINE_ID=VACCINE.VACCINE_ID

- -> WHERE PERSON.DEATH IS NOT NULL;

Empty set (0.00 sec)

	+
NAME	COUNT(PERSON.VACCINE_ID)
SINOPHARM	1
PFIZER	2
ASTRAZENECA	1
	/o.oo

³ rows in set (0.00 sec)