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97243068

```
Command Prompt - mysql.exe -u root -p
ERROR 1046 (3D000): No database selected
mysql> USE class1211;
Database changed
mysql>
mysql>
mysql>
mysql>
mysql> CREATE TABLE vaccine (
    -> vaccineID INT UNSIGNED NOT NULL AUTO_INCREMENT,
    -> name VARCHAR(255) NOT NULL,
    -> country VARCHAR(255) NOT NULL,
    -> quantity INT NOT NULL,
    -> PRIMARY KEY (vaccineID)
    -> );
Query OK, 0 rows affected (0.06 sec)

mysql>
mysql> INSERT INTO vaccine (name, country ,quantity) VALUES ("Sinopharm", "China" , 5920300);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO vaccine (name, country ,quantity) VALUES ("Pfizer", "Germany/US" , 4013);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO vaccine (name, country ,quantity) VALUES ("Oxford-AstraZeneca", "UK/Belgium" , 234021);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO vaccine (name, country ,quantity) VALUES ("Sputnik V", "RUSSIA" , 1032);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO vaccine (name, country ,quantity) VALUES ("COVIran Barekat", "Iran" , 120043);
Query OK, 1 row affected (0.01 sec)

mysql>
mysql> SELECT *
    -> FROM vaccine
    -> ;
+-----------+--------------------+------------+----------+
| vaccineID | name               | country    | quantity |
+-----------+--------------------+------------+----------+
|         1 | Sinopharm          | China      |  5920300 |
|         2 | Pfizer             | Germany/US |     4013 |
|         3 | Oxford-AstraZeneca  | UK/Belgium |   234021 |
|         4 | Sputnik V          | RUSSIA     |     1032 |
|         5 | COVIran Barekat    | Iran       |   120043 |
+-----------+--------------------+------------+----------+
5 rows in set (0.01 sec)

mysql>
```

```
mysql>
mysql> UPDATE persons SET vaccineID = 3 WHERE personID = 5;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> UPDATE persons SET vaccineID = 3 WHERE personID = 8;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql>
mysql> UPDATE persons SET vaccineID = 4 WHERE personID = 5;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> SELECT *
    -> FROM persons;
+----------+-----------+--------------+------------+------------+--------+-----------+
| personID | last_name | first_name   | birth      | death      | gender | vaccineID |
+----------+-----------+--------------+------------+------------+--------+-----------+
|        1 | Alavi     | Akbar        | 1990-11-12 | NULL       | male   |         1 |
|        2 | Makhdumi  | Maryam       | 1992-10-13 | NULL       | female |         1 |
|        3 | Akbari    | Maryam       | 1985-12-14 | 1999-05-03 | female |      NULL |
|        4 | Mostafavi | Ahmad        | 1991-07-05 | NULL       | male   |         1 |
|        5 | Alemi     | Mohammad Reza | 1999-10-16 | NULL      | male   |         4 |
|        6 | Tehrani   | AliAli       | 1979-06-17 | 2007-07-02 | male   |      NULL |
|        7 | Khalilzad | Rojin        | 1980-04-18 | NULL       | female |         1 |
|        8 | Maroofi   | Saba         | 1993-08-19 | NULL       | female |         3 |
|        9 | Baradaran | Nushin       | 2001-06-20 | NULL       | female |         1 |
|       11 | Kaabi     | AliAli       | 1970-02-21 | 2000-11-12 | female |         1 |
+----------+-----------+--------------+------------+------------+--------+-----------+
10 rows in set (0.00 sec)

mysql> UPDATE persons SET vaccineID = 3 WHERE personID = 5;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql>
mysql> UPDATE persons SET vaccineID = 5 WHERE personID = 4;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql>
mysql> SELECT *
    -> FROM persons;
+----------+-----------+--------------+------------+------------+--------+-----------+
| personID | last_name | first_name   | birth      | death      | gender | vaccineID |
+----------+-----------+--------------+------------+------------+--------+-----------+
|        1 | Alavi     | Akbar        | 1990-11-12 | NULL       | male   |         1 |
|        2 | Makhdumi  | Maryam       | 1992-10-13 | NULL       | female |         1 |
|        3 | Akbari    | Maryam       | 1985-12-14 | 1999-05-03 | female |      NULL |
|        4 | Mostafavi | Ahmad        | 1991-07-05 | NULL       | male   |         5 |
|        5 | Alemi     | Mohammad Reza | 1999-10-16 | NULL      | male   |         3 |
|        6 | Tehrani   | AliAli       | 1979-06-17 | 2007-07-02 | male   |      NULL |
|        7 | Khalilzad | Rojin        | 1980-04-18 | NULL       | female |         1 |
|        8 | Maroofi   | Saba         | 1993-08-19 | NULL       | female |         3 |
|        9 | Baradaran | Nushin       | 2001-06-20 | NULL       | female |         1 |
|       11 | Kaabi     | AliAli       | 1970-02-21 | 2000-11-12 | female |         1 |
+----------+-----------+--------------+------------+------------+--------+-----------+
10 rows in set (0.00 sec)

mysql>
```

```
se near 'FROM persons LEFT JOIN vaccine ON persons.vaccineID=vaccSELECT *ine.vaccineID' at line 1
mysql> FROM persons LEFT JOIN vaccine ON persons.vaccineID=vaccine.vaccineID;
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 u
se near 'FROM persons LEFT JOIN vaccine ON persons.vaccineID=vaccine.vaccineID' at line 1
mysql>
mysql>
mysql>
mysql>
mysql>
mysql> SELECT *
    -> FROM persons LEFT JOIN vaccine ON persons.vaccineID=vaccine.vaccineID;
+----------+-----------+--------------+------------+------------+--------+-----------+-----------+-------------------+------------+----------+
| personID | last_name | first_name   | birth      | death      | gender | vaccineID | vaccineID | name              | country    | quantity |
+----------+-----------+--------------+------------+------------+--------+-----------+-----------+-------------------+------------+----------+
|        1 | Alavi     | Akbar        | 1990-11-12 | NULL       | male   |         1 |         1 | Sinopharm         | China      |  5920300 |
|        2 | Makhdumi  | Maryam       | 1992-10-13 | NULL       | female |         1 |         1 | Sinopharm         | China      |  5920300 |
|        3 | Akbari    | Maryam       | 1985-12-14 | 1999-05-03 | female |      NULL |      NULL | NULL              | NULL       |     NULL |
|        4 | Mostafavi | Ahmad        | 1991-07-05 | NULL       | male   |         5 |         5 | COVIran Barekat   | Iran       |   120043 |
|        5 | Alemi     | Mohammad Reza| 1999-10-16 | NULL       | male   |         3 |         3 | Oxford-AstraZeneca| UK/Belgium |   234021 |
|        6 | Tehrani   | AliAli       | 1979-06-17 | 2007-07-02 | male   |      NULL |      NULL | NULL              | NULL       |     NULL |
|        7 | Khalilzad | Rojin        | 1980-04-18 | NULL       | female |         1 |         1 | Sinopharm         | China      |  5920300 |
|        8 | Maroofi   | Saba         | 1993-08-19 | NULL       | female |         3 |         3 | Oxford-AstraZeneca| UK/Belgium |   234021 |
|        9 | Baradaran | Nushin       | 2001-06-20 | NULL       | female |         1 |         1 | Sinopharm         | China      |  5920300 |
|       11 | Kaabi     | AliAli       | 1970-02-21 | 2000-11-12 | female |         1 |         1 | Sinopharm         | China      |  5920300 |
+----------+-----------+--------------+------------+------------+--------+-----------+-----------+-------------------+------------+----------+
10 rows in set (0.00 sec)

mysql> SELECT *
    -> FROM persons RIGHT JOIN vaccine ON persons.vaccineID=vaccine.vaccineID;
+----------+-----------+--------------+------------+------------+--------+-----------+-----------+-------------------+------------+----------+
| personID | last_name | first_name   | birth      | death      | gender | vaccineID | vaccineID | name              | country    | quantity |
+----------+-----------+--------------+------------+------------+--------+-----------+-----------+-------------------+------------+----------+
|        1 | Alavi     | Akbar        | 1990-11-12 | NULL       | male   |         1 |         1 | Sinopharm         | China      |  5920300 |
|        2 | Makhdumi  | Maryam       | 1992-10-13 | NULL       | female |         1 |         1 | Sinopharm         | China      |  5920300 |
|        7 | Khalilzad | Rojin        | 1980-04-18 | NULL       | female |         1 |         1 | Sinopharm         | China      |  5920300 |
|        9 | Baradaran | Nushin       | 2001-06-20 | NULL       | female |         1 |         1 | Sinopharm         | China      |  5920300 |
|       11 | Kaabi     | AliAli       | 1970-02-21 | 2000-11-12 | female |         1 |         1 | Sinopharm         | China      |  5920300 |
|     NULL | NULL      | NULL         | NULL       | NULL       | NULL   |      NULL |         2 | Pfizer            | Germany/US |     4013 |
|        5 | Alemi     | Mohammad Reza| 1999-10-16 | NULL       | male   |         3 |         3 | Oxford-AstraZeneca| UK/Belgium |   234021 |
|        8 | Maroofi   | Saba         | 1993-08-19 | NULL       | female |         3 |         3 | Oxford-AstraZeneca| UK/Belgium |   234021 |
|     NULL | NULL      | NULL         | NULL       | NULL       | NULL   |      NULL |         4 | Sputnik V         | RUSSIA     |     1032 |
|        4 | Mostafavi | Ahmad        | 1991-07-05 | NULL       | male   |         5 |         5 | COVIran Barekat   | Iran       |   120043 |
+----------+-----------+--------------+------------+------------+--------+-----------+-----------+-------------------+------------+----------+
10 rows in set (0.00 sec)

mysql> SELECT *
    -> FROM persons INNER JOIN vaccine ON persons.vaccineID=vaccine.vaccineID;
+----------+-----------+--------------+------------+------------+--------+-----------+-----------+-------------------+------------+----------+
| personID | last_name | first_name   | birth      | death      | gender | vaccineID | vaccineID | name              | country    | quantity |
+----------+-----------+--------------+------------+------------+--------+-----------+-----------+-------------------+------------+----------+
|        1 | Alavi     | Akbar        | 1990-11-12 | NULL       | male   |         1 |         1 | Sinopharm         | China      |  5920300 |
|        2 | Makhdumi  | Maryam       | 1992-10-13 | NULL       | female |         1 |         1 | Sinopharm         | China      |  5920300 |
|        7 | Khalilzad | Rojin        | 1980-04-18 | NULL       | female |         1 |         1 | Sinopharm         | China      |  5920300 |
|        9 | Baradaran | Nushin       | 2001-06-20 | NULL       | female |         1 |         1 | Sinopharm         | China      |  5920300 |
|       11 | Kaabi     | AliAli       | 1970-02-21 | 2000-11-12 | female |         1 |         1 | Sinopharm         | China      |  5920300 |
|        5 | Alemi     | Mohammad Reza| 1999-10-16 | NULL       | male   |         3 |         3 | Oxford-AstraZeneca| UK/Belgium |   234021 |
|        8 | Maroofi   | Saba         | 1993-08-19 | NULL       | female |         3 |         3 | Oxford-AstraZeneca| UK/Belgium |   234021 |
|        4 | Mostafavi | Ahmad        | 1991-07-05 | NULL       | male   |         5 |         5 | COVIran Barekat   | Iran       |   120043 |
+----------+-----------+--------------+------------+------------+--------+-----------+-----------+-------------------+------------+----------+
8 rows in set (0.00 sec)

mysql>
```

```
mysql> SELECT persons.first_name, persons.last_name, vaccine.country
    -> FROM person INNER JOIN vaccine ON persons.vaccineID=vaccine.vaccineID;
ERROR 1146 (42S02): Table 'class1211.person' doesn't exist
mysql>
mysql> SELECT persons.first_name, persons.last_name, vaccine.country
    -> FROM persons INNER JOIN vaccine ON persons.vaccineID=vaccine.vaccineID;
+--------------+-----------+------------+
| first_name   | last_name | country    |
+--------------+-----------+------------+
| Akbar        | Alavi     | China      |
| Maryam       | Makhdumi  | China      |
| Rojin        | Khalilzad | China      |
| Nushin       | Baradaran | China      |
| AliAli       | Kaabi     | China      |
| Mohammad Reza| Alemi     | UK/Belgium |
| Saba         | Maroofi   | UK/Belgium |
| Ahmad        | Mostafavi | Iran       |
+--------------+-----------+------------+
8 rows in set (0.00 sec)

mysql> SELECT persons.first_name, persons.last_name, vaccine.name
    -> FROM persons INNER JOIN vaccine ON persons.vaccineID=vaccine.vaccineID
    -> WHERE persons.death IS NOT NULL;
+------------+-----------+-----------+
| first_name | last_name | name      |
+------------+-----------+-----------+
| AliAli     | Kaabi     | Sinopharm |
+------------+-----------+-----------+
1 row in set (0.00 sec)

mysql>
```

```
8 rows in set (0.00 sec)

mysql> SELECT persons.first_name, persons.last_name, vaccine.country
    -> FROM person INNER JOIN vaccine ON persons.vaccineID=vaccine.vaccineID;
ERROR 1146 (42S02): Table 'class1211.person' doesn't exist
mysql>
mysql> SELECT persons.first_name, persons.last_name, vaccine.country
    -> FROM persons INNER JOIN vaccine ON persons.vaccineID=vaccine.vaccineID;
+---------------+-----------+------------+
| first_name    | last_name | country    |
+---------------+-----------+------------+
| Akbar         | Alavi     | China      |
| Maryam        | Makhdumi  | China      |
| Rojin         | Khalilzad | China      |
| Nushin        | Baradaran | China      |
| AliAli        | Kaabi     | China      |
| Mohammad Reza | Alemi     | UK/Belgium |
| Saba          | Maroofi   | UK/Belgium |
| Ahmad         | Mostafavi | Iran       |
+---------------+-----------+------------+
8 rows in set (0.00 sec)

mysql> SELECT persons.first_name, persons.last_name, vaccine.name
    -> FROM persons INNER JOIN vaccine ON persons.vaccineID=vaccine.vaccineID
    -> WHERE persons.death IS NOT NULL;
+------------+-----------+-----------+
| first_name | last_name | name      |
+------------+-----------+-----------+
| AliAli     | Kaabi     | Sinopharm |
+------------+-----------+-----------+
1 row in set (0.00 sec)

mysql> SELECT vaccine.name, COUNT(persons.personID)
    -> FROM persons RIGHT JOIN vaccine ON persons.vaccineID=vaccine.vaccineID
    -> GROUP BY vaccine.name;
+-------------------+-------------------------+
| name              | COUNT(persons.personID) |
+-------------------+-------------------------+
| Sinopharm         |                       5 |
| Pfizer            |                       0 |
| Oxford-AstraZeneca |                      2 |
| Sputnik V         |                       0 |
| COVIran Barekat   |                       1 |
+-------------------+-------------------------+
5 rows in set (0.00 sec)

mysql>
```