```
Command Prompt - mysql -u root -p

Microsoft Windows [Version 10.0.19042.928]
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C:\Users\Subrata>cd C:\Program Files\MySQL\MySQL Server 8.0\bin

C:\Program Files\MySQL\MySQL Server 8.0\bin>mysql -u root -p
Enter password: **********
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 12
Server version: 8.0.23 MySQL Community Server - GPL

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE DATABASE blood_bank_donation;
Query OK, 1 row affected (0.11 sec)

mysql> SHOW DATABASES;
+--------------------+
| Database           |
+--------------------+
| bank               |
| blood_bank_donation |
| college            |
| exp2               |
| exp6               |
| expt7              |
| information_schema |
| mysql              |
| performance        |
| performance_schema |
| result             |
| sakila             |
| student_exp2       |
| sys                |
| world              |
+--------------------+
15 rows in set (0.06 sec)

mysql> USE blood_bank_donation;
Database changed
mysql> CREATE TABLE Donor(donor_ID INT AUTO_INCREMENT NOT NULL,donor_FIRSTNAME VARCHAR(50) NOT NULL,donor_LASTNAME VARCHAR(50) NOT NULL,donor_ADDRESS VARCHAR(60) NOT NULL,donor_EMAIL VARCHAR(100) NOT NULL,donor_PHONENO VARCHAR(20) NOT NU
LL,donor_DOB DATE NOT NULL,donor_BLOODTYPE VARCHAR(3) NOT NULL,PRIMARY KEY(donor_ID));
Query OK, 0 rows affected (0.17 sec)

mysql> desc Donor;
+-----------------+--------------+------+-----+---------+----------------+
| Field           | Type         | Null | Key | Default | Extra          |
+-----------------+--------------+------+-----+---------+----------------+
| donor_ID        | int          | NO   | PRI | NULL    | auto_increment |
| donor_FIRSTNAME | varchar(50)  | NO   |     | NULL    |                |
| donor_LASTNAME  | varchar(50)  | NO   |     | NULL    |                |
| donor_ADDRESS   | varchar(60)  | NO   |     | NULL    |                |
| donor_EMAIL     | varchar(100) | NO   |     | NULL    |                |
| donor_PHONENO   | varchar(20)  | NO   |     | NULL    |                |
| donor_DOB       | date         | NO   |     | NULL    |                |
| donor_BLOODTYPE | varchar(3)   | NO   |     | NULL    |                |
+-----------------+--------------+------+-----+---------+----------------+
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mysql> INSERT INTO Donor VALUES(101,"Sonu","Singh","502 Crom Park","singh1202@gmail.com","829-1389-2546",'2000-05-20',"B+");
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Donor VALUES(102,"Rajat","Verma","505 Lantern Park","rkverma@gmail.com","916-8569-4512",'1999-07-22',"A-");
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Donor VALUES(103,"Vinay","Pal","510 Green Ape","pal@gmail.com","712-3569-8974",'1998-03-30',"AB+");
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Donor VALUES(104,"Subrata","Das","805 Nair Compound ","das311@gmail.com","522-3539-28954",'2001-11-05',"O+");
Query OK, 1 row affected (0.01 sec)

mysql> SHOW TABLES;
+----------------------------+
| Tables_in_blood_bank_donation |
+----------------------------+
| donor                      |
+----------------------------+
1 row in set (0.09 sec)

mysql> SELECT * FROM Donor;
+----------+-----------------+----------------+-----------------+---------------------+----------------+------------+-----------------+
| donor_ID | donor_FIRSTNAME | donor_LASTNAME | donor_ADDRESS   | donor_EMAIL         | donor_PHONENO  | donor_DOB  | donor_BLOODTYPE |
+----------+-----------------+----------------+-----------------+---------------------+----------------+------------+-----------------+
|      101 | Sonu            | Singh          | 502 Crom Park   | singh1202@gmail.com | 829-1389-2546  | 2000-05-20 | B+              |
|      102 | Rajat           | Verma          | 505 Lantern Park| rkverma@gmail.com   | 916-8569-4512  | 1999-07-22 | A-              |
|      103 | Vinay           | Pal            | 510 Green Ape   | pal@gmail.com       | 712-3569-8974  | 1998-03-30 | AB+             |
|      104 | Subrata         | Das            | 805 Nair Compound| das311@gmail.com    | 522-3539-28954 | 2001-11-05 | O+              |
+----------+-----------------+----------------+-----------------+---------------------+----------------+------------+-----------------+
4 rows in set (0.00 sec)

mysql> CREATE TABLE Recipient(recipient_ID INT NOT NULL UNIQUE,recipient_FIRSTNAME VARCHAR(50) NOT NULL,recipient_LASTNAME VARCHAR(50) NOT NULL,recipient_ADDRESS VARCHAR(60) NOT NULL,recipient_EMAIL VARCHAR(100) NOT NULL,recipient_PHONEN
O VARCHAR(20) NOT NULL,recipient_DOB DATE NOT NULL,recipient_BLOODTYPE VARCHAR(3) NOT NULL,PRIMARY KEY(recipient_ID));
Query OK, 0 rows affected (0.14 sec)

mysql> desc Recipient;
+---------------------+--------------+------+-----+---------+-------+
| Field               | Type         | Null | Key | Default | Extra |
+---------------------+--------------+------+-----+---------+-------+
| recipient_ID        | int          | NO   | PRI | NULL    |       |
| recipient_FIRSTNAME | varchar(50)  | NO   |     | NULL    |       |
| recipient_LASTNAME  | varchar(50)  | NO   |     | NULL    |       |
| recipient_ADDRESS   | varchar(60)  | NO   |     | NULL    |       |
| recipient_EMAIL     | varchar(100) | NO   |     | NULL    |       |
| recipient_PHONENO   | varchar(20)  | NO   |     | NULL    |       |
| recipient_DOB       | date         | NO   |     | NULL    |       |
| recipient_BLOODTYPE | varchar(3)   | NO   |     | NULL    |       |
+---------------------+--------------+------+-----+---------+-------+
8 rows in set (0.01 sec)

mysql> CREATE TABLE Recipient(recipient_ID INT NOT NULL UNIQUE,recipient_FIRSTNAME VARCHAR(50) NOT NULL,recipient_LASTNAME VARCHAR(50) NOT NULL,recipient_ADDRESS VARCHAR(60) NOT NULL,recipient_EMAIL VARCHAR(100) NOT NULL,recipient_PHONEN
O VARCHAR(20) NOT NULL,recipient_DOB DATE NOT NULL,recipient_BLOODTYPE VARCHAR(3) NOT NULL,UNIQUE KEY(recipient_ID));
ERROR 1050 (42S01): Table 'recipient' already exists
mysql> CREATE TABLE Recipientinfo(recipient_ID INT NOT NULL UNIQUE,recipient_FIRSTNAME VARCHAR(50) NOT NULL,recipient_LASTNAME VARCHAR(50) NOT NULL,recipient_ADDRESS VARCHAR(60) NOT NULL,recipient_EMAIL VARCHAR(100) NOT NULL,recipient_PH
ONENO VARCHAR(20) NOT NULL,recipient_DOB DATE NOT NULL,recipient_BLOODTYPE VARCHAR(3) NOT NULL,UNIQUE KEY(recipient_ID));
Query OK, 0 rows affected, 1 warning (0.06 sec)

mysql> desc Recipientinfo;
+---------------------+-------------+------+-----+---------+-------+
| Field               | Type        | Null | Key | Default | Extra |
+---------------------+-------------+------+-----+---------+-------+
| recipient_ID        | int         | NO   | PRI | NULL    |       |
| recipient_FIRSTNAME | varchar(50) | NO   |     | NULL    |       |
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mysql> desc Recipientinfo;
+--------------------+--------------+------+-----+---------+-------+
| Field              | Type         | Null | Key | Default | Extra |
+--------------------+--------------+------+-----+---------+-------+
| recipient_ID       | int          | NO   | PRI | NULL    |       |
| recipient_FIRSTNAME| varchar(50)  | NO   |     | NULL    |       |
| recipient_LASTNAME | varchar(50)  | NO   |     | NULL    |       |
| recipient_ADDRESS  | varchar(60)  | NO   |     | NULL    |       |
| recipient_EMAIL    | varchar(100) | NO   |     | NULL    |       |
| recipient_PHONENO  | varchar(20)  | NO   |     | NULL    |       |
| recipient_DOB      | date         | NO   |     | NULL    |       |
| recipient_BLOODTYPE| varchar(3)   | NO   |     | NULL    |       |
+--------------------+--------------+------+-----+---------+-------+
8 rows in set (0.04 sec)

mysql> INSERT INTO Recipientinfo VALUES(201,"Vivek","Pal","Kalyan","vivek@gmail.com","789-3209-2812",'2001-11-01',"C+");
Query OK, 1 row affected (0.02 sec)

mysql> INSERT INTO Recipientinfo VALUES(202,"Ankit","Verma","Banaras","ankit@gmail.com","859-3221-2212",'2000-09-25',"A+");
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Recipientinfo VALUES(203,"Rakesh","Thakur","Dhitpur","rakesh@gmail.com","915-8597-3512",'1999-07-02',"O+");
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Recipientinfo VALUES(204,"Jaitali","Sathale","Dapoli","sathale@gmail.com","814-6523-2361",'2000-09-24',"A+");
Query OK, 1 row affected (0.01 sec)

mysql> SHOW TABLES;
+----------------------------+
| Tables_in_blood_bank_donation |
+----------------------------+
| donor                      |
| recipient                  |
| recipientinfo              |
+----------------------------+
3 rows in set (0.06 sec)

mysql> SELECT * FROM recipientinfo;
+--------------+--------------------+-------------------+-------------------+-------------------+-------------------+---------------+--------------------+
| recipient_ID | recipient_FIRSTNAME| recipient_LASTNAME| recipient_ADDRESS | recipient_EMAIL   | recipient_PHONENO | recipient_DOB | recipient_BLOODTYPE|
+--------------+--------------------+-------------------+-------------------+-------------------+-------------------+---------------+--------------------+
|          201 | Vivek              | Pal               | Kalyan            | vivek@gmail.com   | 789-3209-2812     | 2001-11-01    | C+                 |
|          202 | Ankit              | Verma             | Banaras           | ankit@gmail.com   | 859-3221-2212     | 2000-09-25    | A+                 |
|          203 | Rakesh             | Thakur            | Dhitpur           | rakesh@gmail.com  | 915-8597-3512     | 1999-07-02    | O+                 |
|          204 | Jaitali            | Sathale           | Dapoli            | sathale@gmail.com | 814-6523-2361     | 2000-09-24    | A+                 |
+--------------+--------------------+-------------------+-------------------+-------------------+-------------------+---------------+--------------------+
4 rows in set (0.00 sec)

mysql> CREATE TABLE MedicalPersonnel(emp_ID INT AUTO_INCREMENT NOT NULL,emp_FIRSTNAME VARCHAR(20) NOT NULL,emp_LASTNAME VARCHAR(20) NOT NULL,emp_ADDRESS VARCHAR(50) NOT NULL,emp_EMAIL VARCHAR(20) NOT NULL,emp_PHONENO VARCHAR(20)NOT NULL,
emp_DOB DATE NOT NULL,PRIMARY KEY(emp_ID));
Query OK, 0 rows affected (0.39 sec)

mysql> INSERT INTO MedicalPersonnel VALUES(301,"Melissa","Smith","3362 Apple AVe","msmith@gmail.com","316-659-2594",'1935-11-04');
Query OK, 1 row affected (0.11 sec)

mysql> INSERT INTO MedicalPersonnel VALUES(302,"Ajit","Patel","Varanasi","ajit@gmail.com","258-620-2589",'1985-04-27');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO MedicalPersonnel VALUES(303,"Sikha","Singh","Lucknow","sikha@gmail.com","897-032-3189",'1989-11-29');
Query OK, 1 row affected (0.01 sec)

mysql> SHOW TABLES;
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mysql> SHOW TABLES;
+-----------------------------+
| Tables_in_blood_bank_donation |
+-----------------------------+
| donor                       |
| medicalpersonnel            |
| recipient                   |
| recipientinfo               |
+-----------------------------+
4 rows in set (0.06 sec)

mysql> SELECT * FROM MedicalPersonnel;
+--------+---------------+--------------+----------------+------------------+--------------+------------+
| emp_ID | emp_FIRSTNAME | emp_LASTNAME | emp_ADDRESS    | emp_EMAIL        | emp_PHONENO  | emp_DOB    |
+--------+---------------+--------------+----------------+------------------+--------------+------------+
|    301 | Melissa       | Smith        | 3362 Apple AVe | msmith@gmail.com | 316-659-2594 | 1935-11-04 |
|    302 | Ajit          | Patel        | Varanasi       | ajit@gmail.com   | 258-620-2589 | 1985-04-27 |
|    303 | Sikha         | Singh        | Lucknow        | sikha@gmail.com  | 897-032-3189 | 1989-11-29 |
+--------+---------------+--------------+----------------+------------------+--------------+------------+
3 rows in set (0.00 sec)

mysql> CREATE TABLE BloodDonation(blood_ID INT(11) AUTO_INCREMENT,blood_donarID INT(11) NOT NULL,blood_DATEDONATED DATETIME NOT NULL,blood_QUANTITY INT NOT NULL,PRIMARY KEY(blood_ID),FOREIGN KEY (donor_ID) REFERENCES Donor(donor_ID));
ERROR 1072 (42000): Key column 'donor_ID' doesn't exist in table
mysql> CREATE TABLE BloodDonation(blood_ID INT(11) AUTO_INCREMENT,blood_donar_ID INT(11) NOT NULL,blood_DATEDONATED DATETIME NOT NULL,blood_QUANTITY INT NOT NULL,PRIMARY KEY(blood_ID),FOREIGN KEY (donor_ID) REFERENCES Donor(donor_ID));
ERROR 1072 (42000): Key column 'donor_ID' doesn't exist in table
mysql> CREATE TABLE BloodDonation(blood_ID INT(11) AUTO_INCREMENT,blood_donarID INT(11) NOT NULL,blood_DATEDONATED DATETIME NOT NULL,blood_QUANTITY INT NOT NULL,PRIMARY KEY(blood_ID),FOREIGN KEY (donorID) REFERENCES Donor(donorID));
ERROR 1072 (42000): Key column 'donorID' doesn't exist in table
mysql> CREATE TABLE BloodDonation(blood_ID INT(11) AUTO_INCREMENT,donar_ID INT(11) NOT NULL,DATEDONATED DATETIME NOT NULL,Quantity INT NOT NULL,PRIMARY KEY(blood_ID),FOREIGN KEY (donor_ID) REFERENCES Donor(donor_ID));
ERROR 1072 (42000): Key column 'donor_ID' doesn't exist in table
mysql> CREATE TABLE BloodDonation(blood_ID INT(11) AUTO_INCREMENT,donar_ID INT(11) NOT NULL,DATEDONATED DATETIME NOT NULL,Quantity INT NOT NULL,PRIMARY KEY(blood_ID),FOREIGN KEY (donor_ID) REFERENCES BloodDonation(donor_ID));
ERROR 1072 (42000): Key column 'donor_ID' doesn't exist in table
mysql> CREATE TABLE BloodDonation(blood_ID INT(11) AUTO_INCREMENT,donar_ID INT(11) NOT NULL,DATEDONATED DATETIME NOT NULL,Quantity INT NOT NULL,PRIMARY KEY(blood_ID),FOREIGN KEY (donor_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 ')' at line 1
mysql> CREATE TABLE BloodDonation(blood_ID INT(11) AUTO_INCREMENT,donar_ID INT(11) NOT NULL,DATEDONATED DATETIME NOT NULL,Quantity INT NOT NULL,PRIMARY KEY(blood_ID));
Query OK, 0 rows affected, 2 warnings (0.45 sec)

mysql> desc BloodDonation;
+-------------+----------+------+-----+---------+----------------+
| Field       | Type     | Null | Key | Default | Extra          |
+-------------+----------+------+-----+---------+----------------+
| blood_ID    | int      | NO   | PRI | NULL    | auto_increment |
| donar_ID    | int      | NO   |     | NULL    |                |
| DATEDONATED | datetime | NO   |     | NULL    |                |
| Quantity    | int      | NO   |     | NULL    |                |
+-------------+----------+------+-----+---------+----------------+
4 rows in set (0.02 sec)

mysql> INSERT INTO MedicalPersonnel VALUES(505,101,'2020-08-16',1);
ERROR 1136 (21S01): Column count doesn't match value count at row 1
mysql> INSERT INTO BloodDonation VALUES(505,101,'2020-08-16',1);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO BloodDonation VALUES(510,102,'2020-05-22',1);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO BloodDonation VALUES(515,103,'2020-11-12',1);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO BloodDonation VALUES(520,104,'2020-05-23',1);
Query OK, 1 row affected (0.01 sec)

mysql> SHOW TABLES;
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mysql> desc BloodDonation;
+-------------+----------+------+-----+---------+----------------+
| Field       | Type     | Null | Key | Default | Extra          |
+-------------+----------+------+-----+---------+----------------+
| blood_ID    | int      | NO   | PRI | NULL    | auto_increment |
| donar_ID    | int      | NO   |     | NULL    |                |
| DATEDONATED | datetime | NO   |     | NULL    |                |
| Quantity    | int      | NO   |     | NULL    |                |
+-------------+----------+------+-----+---------+----------------+
4 rows in set (0.02 sec)

mysql> INSERT INTO MedicalPersonnel VALUES(505,101,'2020-08-16',1);
ERROR 1136 (21S01): Column count doesn't match value count at row 1
mysql> INSERT INTO BloodDonation VALUES(505,101,'2020-08-16',1);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO BloodDonation VALUES(510,102,'2020-05-22',1);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO BloodDonation VALUES(515,103,'2020-11-12',1);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO BloodDonation VALUES(520,104,'2020-05-23',1);
Query OK, 1 row affected (0.01 sec)

mysql> SHOW TABLES;
+-------------------------+
| Tables_in_blood_bank_donation |
+-------------------------+
| blooddonation           |
| donor                   |
| medicalpersonnel        |
| recipient               |
| recipientinfo           |
+-------------------------+
5 rows in set (0.04 sec)

mysql> SELECT * FROM BloodDonation;
+----------+----------+---------------------+----------+
| blood_ID | donar_ID | DATEDONATED         | Quantity |
+----------+----------+---------------------+----------+
|      505 |      101 | 2020-08-16 00:00:00 |        1 |
|      510 |      102 | 2020-05-22 00:00:00 |        1 |
|      515 |      103 | 2020-11-12 00:00:00 |        1 |
|      520 |      104 | 2020-05-23 00:00:00 |        1 |
+----------+----------+---------------------+----------+
4 rows in set (0.00 sec)

mysql> CREATE TABLE BloodTransaction(transaction_ID INT(11) AUTO_INCREMENT,emp_ID INT(11) NOT NULL,dateOut DATETIME NOT NULL,QUANTITY INT NOT NULL,recipient_ID INT(11) NOT NULL,blood_ID INT(11) NOT NULL,PRIMARY KEY(transaction_ID),FOREIG
N KEY(emp_ID) REFERENCES MedicalPersonnel(emp_ID),FOREIGN KEY (recipient_ID) REFERENCES Recipient(recipient_ID),FOREIGN KEY (blood_ID) REFERENCES BloodDonation(blood_ID));
Query OK, 0 rows affected, 4 warnings (0.17 sec)

mysql> desc BloodTransaction;
+----------------+----------+------+-----+---------+----------------+
| Field          | Type     | Null | Key | Default | Extra          |
+----------------+----------+------+-----+---------+----------------+
| transaction_ID | int      | NO   | PRI | NULL    | auto_increment |
| emp_ID         | int      | NO   | MUL | NULL    |                |
| dateOut        | datetime | NO   |     | NULL    |                |
| QUANTITY       | int      | NO   |     | NULL    |                |
| recipient_ID   | int      | NO   | MUL | NULL    |                |
| blood_ID       | int      | NO   | MUL | NULL    |                |
```