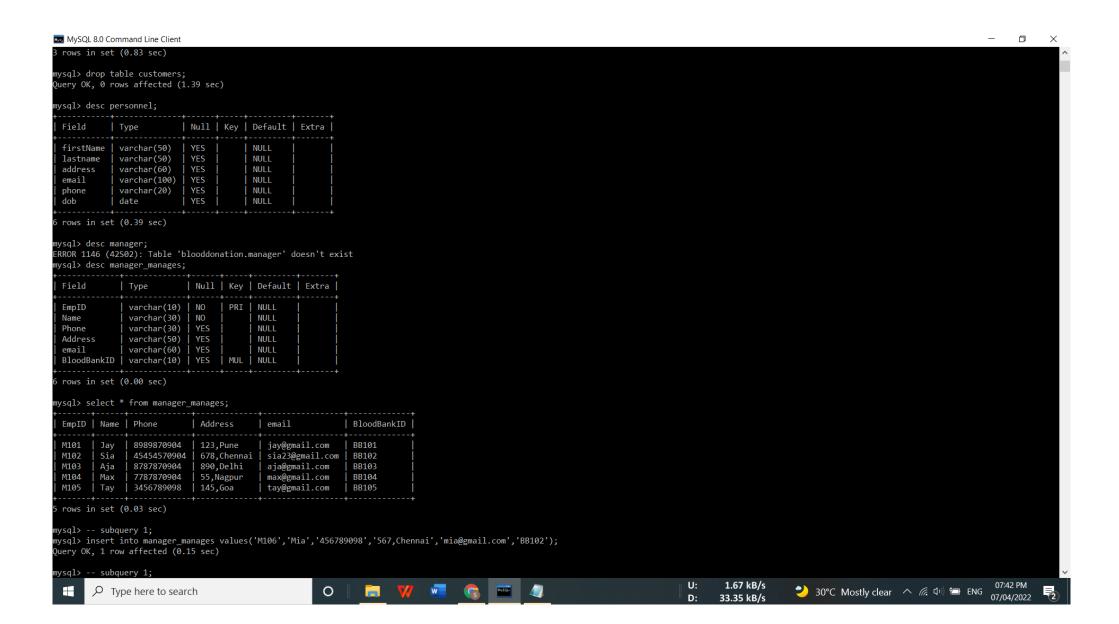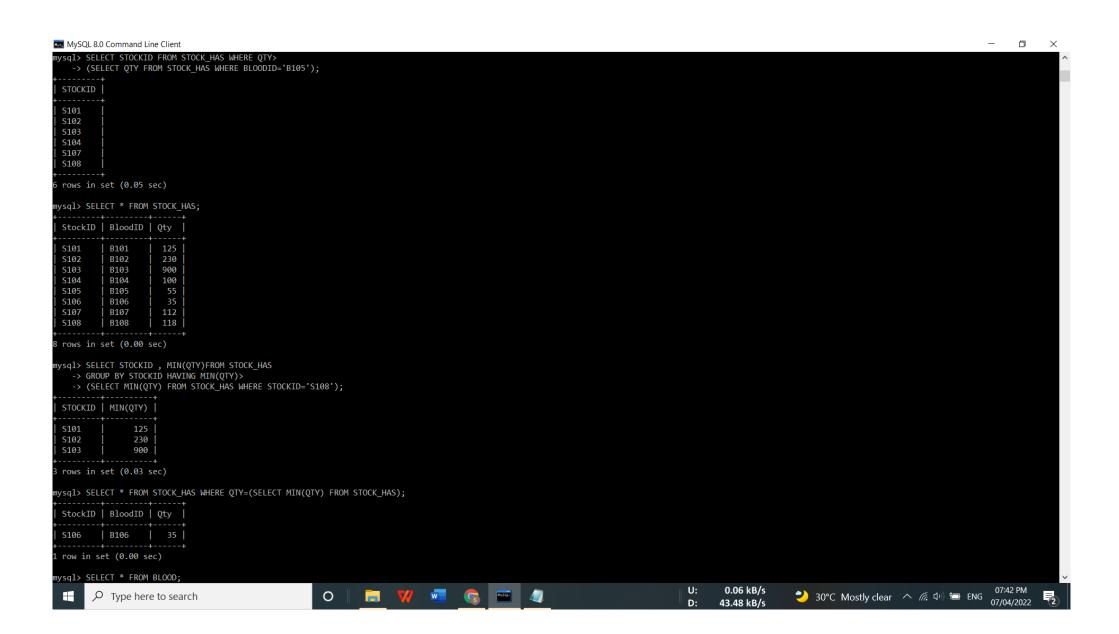```
MySQL 8.0 Command Line Client

Enter password: ********
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 14
Server version: 8.0.28 MySQL Community Server - GPL

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owners.

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

mysql> use blooddonation;
Database changed
mysql> show tables;
+-------------------------+
| Tables_in_blooddonation |
+-------------------------+
| blood_stored |
| bloodbank |
| customers |
| donates |
| donor |
| hospital |
| labtech |
| manager_manages |
| orders |
| personnel |
| stock_has |
| works |
+-------------------------+
12 rows in set (1.01 sec)

mysql> -- Subqueries
mysql> drop customers;
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 'customers' at line 1
mysql> desc customers;
+---------+-------------+------+-----+---------+-------+
| Field | Type | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
id	varchar(20)	YES		NULL	
name	varchar(20)	YES		NULL	
address	varchar(20)	YES		NULL	
+---------+-------------+------+-----+---------+-------+
3 rows in set (0.83 sec)

mysql> drop table customers;
Query OK, 0 rows affected (1.39 sec)
```

```
3 rows in set (0.83 sec)

mysql> drop table customers;
Query OK, 0 rows affected (1.39 sec)

mysql> desc personnel;
+-----------+--------------+------+-----+---------+-------+
| Field     | Type         | Null | Key | Default | Extra |
+-----------+--------------+------+-----+---------+-------+
| firstName | varchar(50)  | YES  |     | NULL    |       |
| lastname  | varchar(50)  | YES  |     | NULL    |       |
| address   | varchar(60)  | YES  |     | NULL    |       |
| email     | varchar(100) | YES  |     | NULL    |       |
| phone     | varchar(20)  | YES  |     | NULL    |       |
| dob       | date         | YES  |     | NULL    |       |
+-----------+--------------+------+-----+---------+-------+
6 rows in set (0.39 sec)

mysql> desc manager;
ERROR 1146 (42S02): Table 'blooddonation.manager' doesn't exist
mysql> desc manager_manages;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| EmpID      | varchar(10) | NO   | PRI | NULL    |       |
| Name       | varchar(30) | NO   |     | NULL    |       |
| Phone      | varchar(30) | YES  |     | NULL    |       |
| Address    | varchar(50) | YES  |     | NULL    |       |
| email      | varchar(60) | YES  |     | NULL    |       |
| BloodBankID| varchar(10) | YES  | MUL | NULL    |       |
+------------+-------------+------+-----+---------+-------+
6 rows in set (0.00 sec)

mysql> select * from manager_manages;
+-------+------+------------+-------------+----------------+------------+
| EmpID | Name | Phone      | Address     | email          | BloodBankID|
+-------+------+------------+-------------+----------------+------------+
| M101  | Jay  | 8989870904 | 123,Pune    | jay@gmail.com   | BB101      |
| M102  | Sia  | 45454570904| 678,Chennai | sia23@gmail.com | BB102      |
| M103  | Aja  | 8787870904 | 890,Delhi   | aja@gmail.com   | BB103      |
| M104  | Max  | 7787870904 | 55,Nagpur   | max@gmail.com   | BB104      |
| M105  | Tay  | 3456789098 | 145,Goa     | tay@gmail.com   | BB105      |
+-------+------+------------+-------------+----------------+------------+
5 rows in set (0.03 sec)

mysql> -- subquery 1;
mysql> insert into manager_manages values('M106','Mia','456789098','567,Chennai','mia@gmail.com','BB102');
Query OK, 1 row affected (0.15 sec)

mysql> -- subquery 1;
```

```
mysql> -- subquery 1;
mysql> insert into manager_manages values('M106','Mia','456789098','567,Chennai','mia@gmail.com','BB102');
Query OK, 1 row affected (0.15 sec)

mysql> -- subquery 1;
mysql> SELECT empid, name
    -> from manager_manages
    -> where name IN
    -> (select name from manager_manages where BloodBankID='BB102');
+-------+------+
| empid | name |
+-------+------+
| M102  | Sia  |
| M106  | Mia  |
+-------+------+
2 rows in set (0.24 sec)

mysql> DESC STOCK;
ERROR 1146 (42S02): Table 'blooddonation.stock' doesn't exist
mysql> DESC STOCK_hAS;
+---------+--------------+------+-----+---------+-------+
| Field   | Type         | Null | Key | Default | Extra |
+---------+--------------+------+-----+---------+-------+
| StockID | varchar(10)  | NO   | PRI | NULL    |       |
| BloodID | varchar(10)  | YES  | MUL | NULL    |       |
| Qty     | decimal(10,0)| YES  |     | NULL    |       |
+---------+--------------+------+-----+---------+-------+
3 rows in set (0.09 sec)

mysql> -- SUBQUERY 2;
mysql> SELECT STOCKID FROM STOCK_HAS WHERE STOCKID IN
    -> (SELECT STOCKID
    -> FROM STOCK_HAS
    -> WHERE BLOODID='B103');
+---------+
| STOCKID |
+---------+
| S103    |
+---------+
1 row in set (0.04 sec)

mysql> -- SUBQUERY 3;
mysql> SELECT STOCKID FROM STOCK_HAS WHERE QTY>
    -> (SELECT QTY FROM STOCK_HAS WHERE BLOODID='B105');
+---------+
| STOCKID |
+---------+
| S101    |
| S102    |
| S103    |
```

```
mysql> SELECT STOCKID FROM STOCK_HAS WHERE QTY>
    -> (SELECT QTY FROM STOCK_HAS WHERE BLOODID='B105');
+---------+
| STOCKID |
+---------+
| S101    |
| S102    |
| S103    |
| S104    |
| S107    |
| S108    |
+---------+
6 rows in set (0.05 sec)

mysql> SELECT * FROM STOCK_HAS;
+---------+---------+------+
| StockID | BloodID | Qty  |
+---------+---------+------+
| S101    | B101    |  125 |
| S102    | B102    |  230 |
| S103    | B103    |  900 |
| S104    | B104    |  100 |
| S105    | B105    |   55 |
| S106    | B106    |   35 |
| S107    | B107    |  112 |
| S108    | B108    |  118 |
+---------+---------+------+
8 rows in set (0.00 sec)

mysql> SELECT STOCKID , MIN(QTY)FROM STOCK_HAS
    -> GROUP BY STOCKID HAVING MIN(QTY)>
    -> (SELECT MIN(QTY) FROM STOCK_HAS WHERE STOCKID='S108');
+---------+----------+
| STOCKID | MIN(QTY) |
+---------+----------+
| S101    |      125 |
| S102    |      230 |
| S103    |      900 |
+---------+----------+
3 rows in set (0.03 sec)

mysql> SELECT * FROM STOCK_HAS WHERE QTY=(SELECT MIN(QTY) FROM STOCK_HAS);
+---------+---------+------+
| StockID | BloodID | Qty  |
+---------+---------+------+
| S106    | B106    |   35 |
+---------+---------+------+
1 row in set (0.00 sec)

mysql> SELECT * FROM BLOOD;
```

```
| S106    | B106    |    35 |
+---------+---------+-------+
1 row in set (0.00 sec)

mysql> SELECT * FROM BLOOD;
ERROR 1146 (42S02): Table 'blooddonation.blood' doesn't exist
mysql> SELECT * FROM BLOOD_STORED;
+---------+-----------+------------+------------+
| BloodID | BloodType | BloodBankID | DateOfReg |
+---------+-----------+------------+------------+
| B101    | A+        | BB101       | 2022-01-07 |
| B102    | B+        | BB102       | 2022-01-22 |
| B103    | O+        | BB102       | 2022-02-22 |
| B104    | AB+       | BB103       | 2022-01-09 |
| B105    | A-        | BB105       | 2022-01-19 |
| B106    | B-        | BB104       | 2022-01-29 |
| B107    | O-        | BB103       | 2022-01-18 |
| B108    | AB-       | BB105       | 2022-01-15 |
+---------+-----------+------------+------------+
8 rows in set (0.06 sec)

mysql> -CORRELATED SUBQUERY
    -> ;
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 '-CORRELATED SUBQUERY' at line 1
mysql> --CORRELATED SUBQUERY
    -> ;
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 '--CORRELATED SUBQUERY' at line 1
mysql> -- CORRELATED SUBQUERY;
mysql> SELECT B.BLOODTYPE FROM BLOOD_STORED B
    -> WHERE B.BLOODID=
    -> (SELECT E.BLOODID
    -> FROM STOCK_HAS E
    -> WHERE E.BLOODID=B.BLOODID);
+-----------+
| BLOODTYPE |
+-----------+
| A+        |
| B+        |
| O+        |
| AB+       |
| A-        |
| B-        |
| O-        |
| AB-       |
+-----------+
8 rows in set (0.00 sec)

mysql> -- NON CORRELATED;
mysql> SELECT STOCKID FROM STOCK_HAS
    -> WHERE QTY=
```

```
8 rows in set (0.00 sec)

mysql> -- NON CORRELATED;
mysql> SELECT STOCKID FROM STOCK_HAS
    -> WHERE QTY=
    -> (SELECT MAX(QTY) FROM STOCK_HAS);
+---------+
| STOCKID |
+---------+
| S103    |
+---------+
1 row in set (0.00 sec)

mysql> SELECT STOCKID,BLOODID
    -> FROM STOCK_HAS
    -> WHERE QTY>
    -> (SELECT AVERAGE(QTY
    -> ) FROM STOCK_HAS);
ERROR 1305 (42000): FUNCTION blooddonation.AVERAGE does not exist
mysql> SELECT STOCKID,BLOODID
    -> FROM STOCK_HAS
    -> WHERE QTY=
    -> (SELECT AVERAGE(QTY) FROM STOCK_HAS);
ERROR 1305 (42000): FUNCTION blooddonation.AVERAGE does not exist
mysql>
mysql> SELECT STOCKID,BLOODID
    -> WHERE QTY>
    -> (SELECT MIN(QTY) FROM STOCK_HAS);
ERROR 1054 (42S22): Unknown column 'STOCKID' in 'field list'
mysql> SELECT STOCKID,BLOODID
    ->
    ->
    -> ;;;
ERROR 1054 (42S22): Unknown column 'STOCKID' in 'field list'
ERROR:
No query specified

ERROR:
No query specified

mysql> SELECT STOCKID,BLOODID
    -> FROM STOCK_HAS
    -> WHERE QTY>
    -> (SELECT MIN(QTY) FROM STOCK_HAS);
+---------+---------+
| STOCKID | BLOODID |
+---------+---------+
| S101    | B101    |
| S102    | B102    |
| S103    | B103    |
```

```
mysql>
mysql> SELECT STOCKID,BLOODID
    -> WHERE QTY>
    -> (SELECT MIN(QTY) FROM STOCK_HAS);
ERROR 1054 (42S22): Unknown column 'STOCKID' in 'field list'
mysql> SELECT STOCKID,BLOODID
    ->
    ->
    -> ;;;
ERROR 1054 (42S22): Unknown column 'STOCKID' in 'field list'
ERROR:
No query specified

ERROR:
No query specified

mysql> SELECT STOCKID,BLOODID
    -> FROM STOCK_HAS
    -> WHERE QTY>
    -> (SELECT MIN(QTY) FROM STOCK_HAS);
+---------+---------+
| STOCKID | BLOODID |
+---------+---------+
| S101    | B101    |
| S102    | B102    |
| S103    | B103    |
| S104    | B104    |
| S105    | B105    |
| S107    | B107    |
| S108    | B108    |
+---------+---------+
7 rows in set (0.00 sec)

mysql> SELECT STOCKID COUNT(BLOODID)
    -> FROM STOCK_HAS
    -> JOIN
    -> DEPA;;
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 'COUNT(BLOODID)
FROM STOCK_HAS
JOIN
DEPA' at line 1
ERROR:
No query specified

mysql>
```