

```
Command Prompt - mysql.exe -u root -p
mysql> USE class1211;
Database changed
mysql>
mysql> delimiter //
mysql> CREATE PROCEDURE select_alive ()
-> BEGIN
->     SELECT *
->     FROM persons
->     WHERE death IS NULL;
-> END//
ERROR 1304 (42000): PROCEDURE select_alive already exists
mysql> delimiter ;
mysql>
mysql> CALL select_alive();
+-----+-----+-----+-----+-----+-----+-----+
| 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 |
| 4 | Mostafavi | Ahmad | 1991-07-05 | NULL | male | 5 |
| 5 | Alemi | Mohammad Reza | 1999-10-16 | NULL | male | 3 |
| 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 |
+-----+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)

Query OK, 0 rows affected (0.05 sec)

mysql>
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C:\Command Prompt - mysql.exe -u root -p
-----+
10 rows in set (0.00 sec)

mysql> SET @avg_age = (SELECT AVG(get_age(birth)) FROM persons);
Query OK, 0 rows affected (0.00 sec)

mysql> SELECT * FROM persons WHERE get_age(birth) > @avg_age;
+-----+-----+-----+-----+-----+-----+-----+
| personID | last_name | first_name | birth      | death      | gender | vaccineID |
+-----+-----+-----+-----+-----+-----+-----+
| 3        | Akbari    | Maryam     | 1985-12-14 | 1999-05-03 | female | NULL      |
| 6        | Tehrani   | AliAli     | 1979-06-17 | 2007-07-02 | male   | NULL      |
| 7        | Khalilzad | Rojin      | 1980-04-18 | NULL       | female | 1         |
| 11       | Kaabi     | AliAli     | 1970-02-21 | 2000-11-12 | female | 1         |
+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> DECLARE min_age INT DEFAULT 0;
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 'DECLARE min_age I
NT DEFAULT 0' at line 1
mysql> SET min_age = (SELECT MIN(get_age(birth)) FROM persons);
ERROR 1193 (HY000): Unknown system variable 'min_age'
mysql>
mysql>
mysql> DROP PROCEDURE test;
Query OK, 0 rows affected (0.02 sec)

mysql> delimiter //
mysql> CREATE PROCEDURE test()
-> BEGIN
-> DECLARE min_age INT ;
-> SET min_age = (SELECT MIN(get_age(birth)) FROM persons );
-> SELECT *
-> FROM PERSON
-> WHERE TIMESTAMPDIFF(YEAR, birth , CURDATE()) = min_age ;
-> END //
Query OK, 0 rows affected (0.01 sec)

mysql> delimiter ;
mysql>

```

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C:\Command Prompt - mysql.exe -u root -p
ERROR 1304 (42000): FUNCTION get_age already exists
mysql> delimiter ;
mysql>
mysql> SELECT get_age (birth) FROM persons;
+-----+
| get_age (birth) |
+-----+
| 31              |
| 29              |
| 36              |
| 30              |
| 22              |
| 42              |
| 42              |
| 28              |
| 20              |
| 52              |
+-----+
10 rows in set (0.00 sec)

mysql> SET @avg_age = (SELECT AVG(get_age(birth)) FROM persons);
Query OK, 0 rows affected (0.00 sec)

mysql> SELECT * FROM persons WHERE get_age(birth) > @avg_age;
+-----+-----+-----+-----+-----+-----+-----+
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+-----+-----+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)

mysql> delimiter //
mysql> CREATE FUNCTION get_age (birth DATE)
-> RETURNS INT
-> DETERMINISTIC
-> BEGIN
-> RETURN TIMESTAMPDIFF (YEAR, birth, CURDATE());
-> END//
ERROR 1304 (42000): FUNCTION get_age already exists
mysql> delimiter ;
mysql>
mysql> SELECT get_age (birth) FROM persons;
+-----+
| get_age (birth) |
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