19. Connecting the MySQL database with programming languages MySQL ma'lumotlar bazasini dasturlash tillari bilan bog'lash.

ass. Baltayev Rustambek

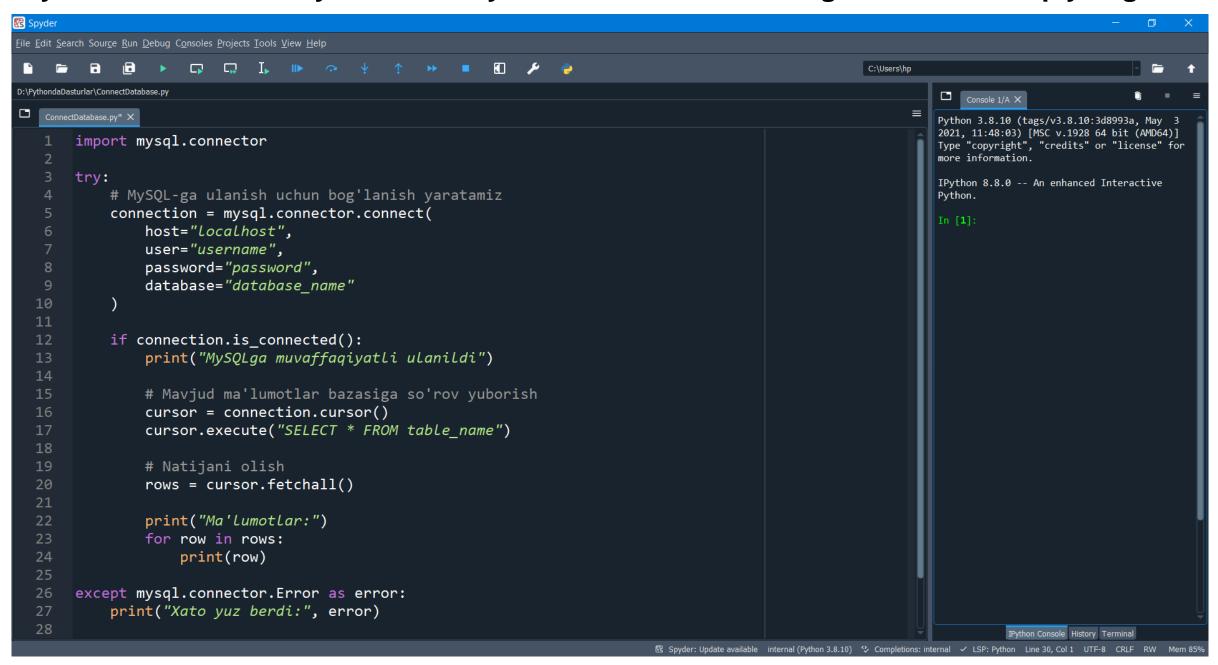
C++ dasturlash tili yordamida MySQL ma'lumotlar bazasiga ulanish kodi quyidagicha:

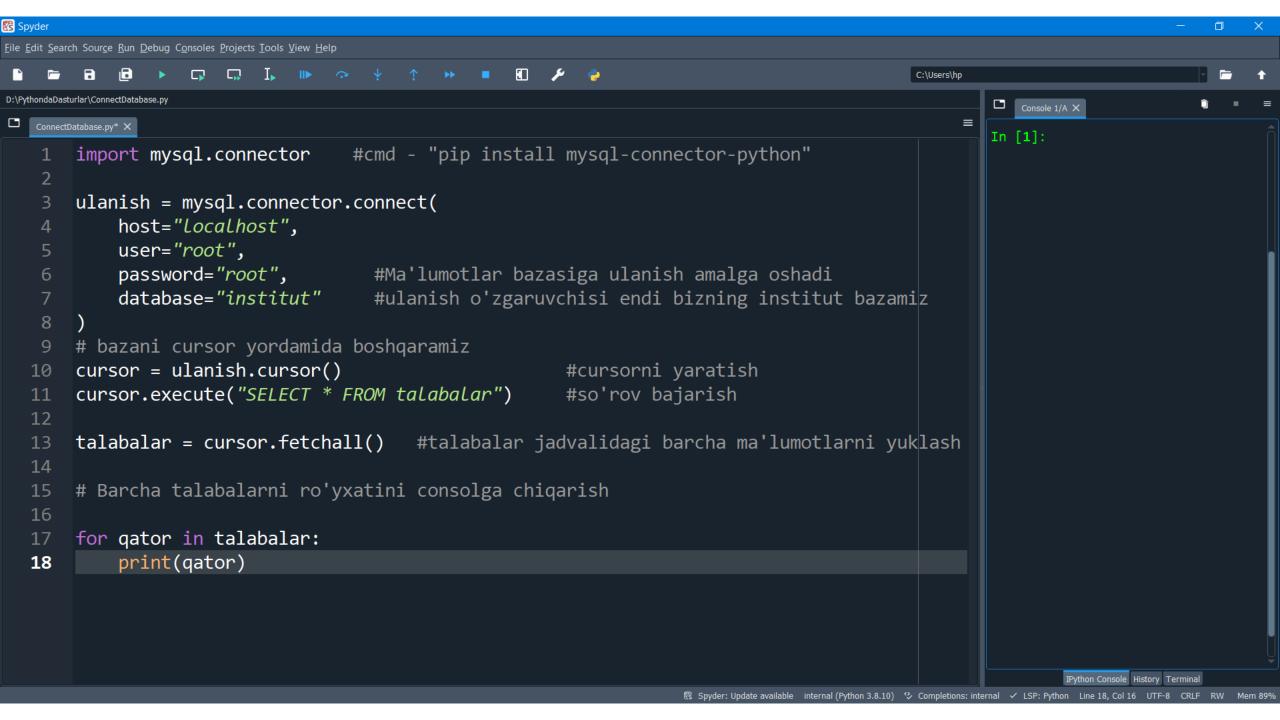
```
<u>File Edit Selection View Go Run Terminal Help</u>
                                                                                      Search [Administrator]
                                                                                                                                                                                □ …

    ⊕ Untitled-1.cpp    ●

     C: > Users > hp > Documents > 6 Untitled-1.cpp
             #include <iostream>
             #include <mysql/mysql.h>
            int main() {
م
                MYSQL *conn;
                MYSQL_RES *res;
                MYSQL_ROW row;
                conn = mysql_init(NULL);
                 if (conn == NULL) {
                     std::cerr << "MySQLga ulanishda xatolik yuz berdi!" << std::endl;</pre>
                     return 1;
                 conn = mysql_real_connect(conn, "localhost", "username", "password", "database_name", 0, NULL, 0);
                     std::cout << "MySQLga muvaffaqiyatli ulanildi" << std::endl;</pre>
                     if (mysql_query(conn, "SELECT * FROM table_name")) {
                         std::cerr << "So'rovni bajaramizda xatolik yuz berdi!" << std::endl;</pre>
                         mysql_close(conn);
                         return 1;
                     res = mysql_use_result(conn);
                     if (res) {
                         std::cout << "Ma'lumotlar:" << std::endl;</pre>
                         while ((row = mysql fetch row(res)) != NULL) {
                             std::cout << row[0] << "\t" << row[1] << /* ... */ << std::endl; // Ma'lumotlarini o'qish
                     mysql_free_result(res);
                     mysql close(conn);
                 } else {
                     std::cerr << "MySQLga ulanishda xatolik yuz berdi!" << std::endl;</pre>
                     return 1;
       32
                   return 0; }
```

Python dasturlash tili yordamida MySQL ma'lumotlar bazasiga ulanish kodi quyidagicha:

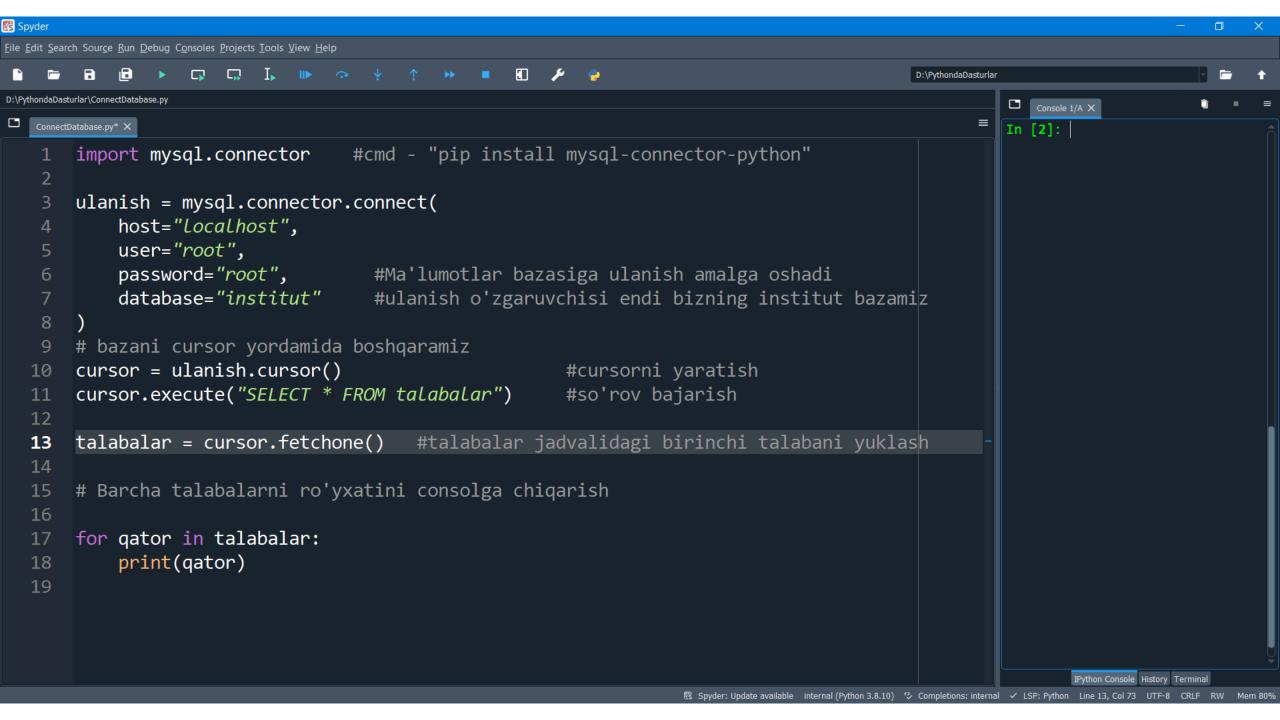


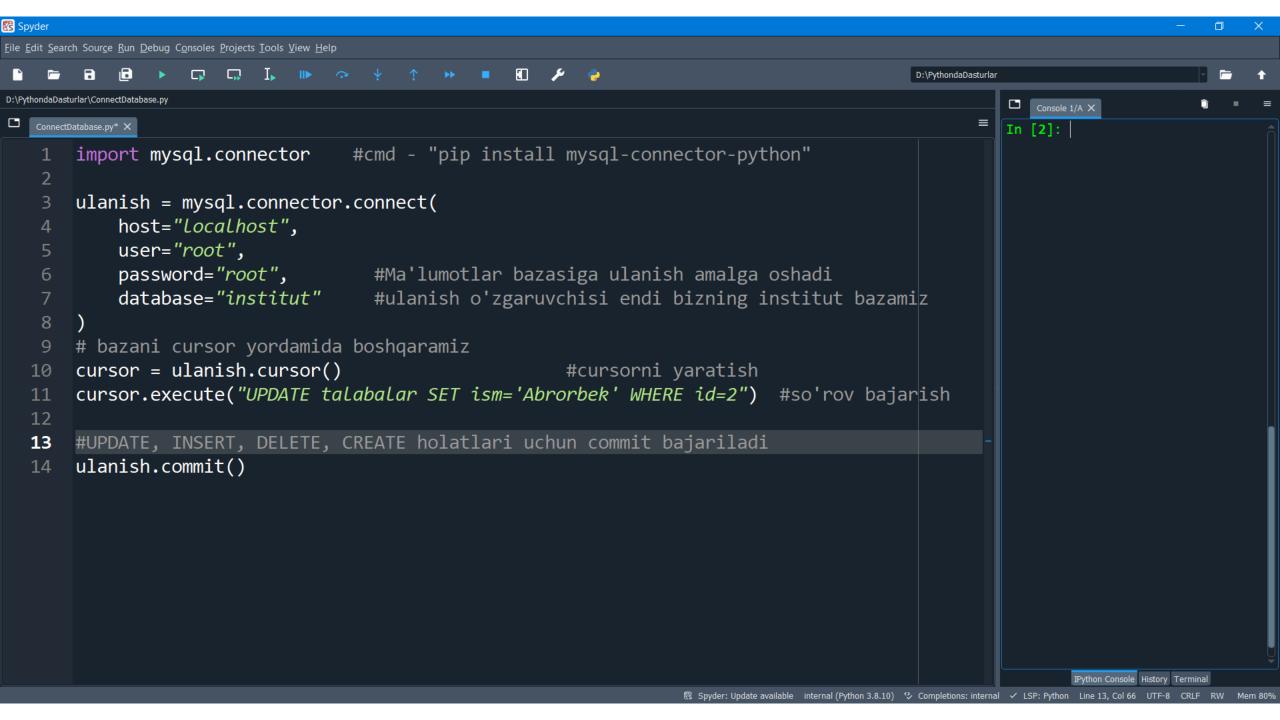


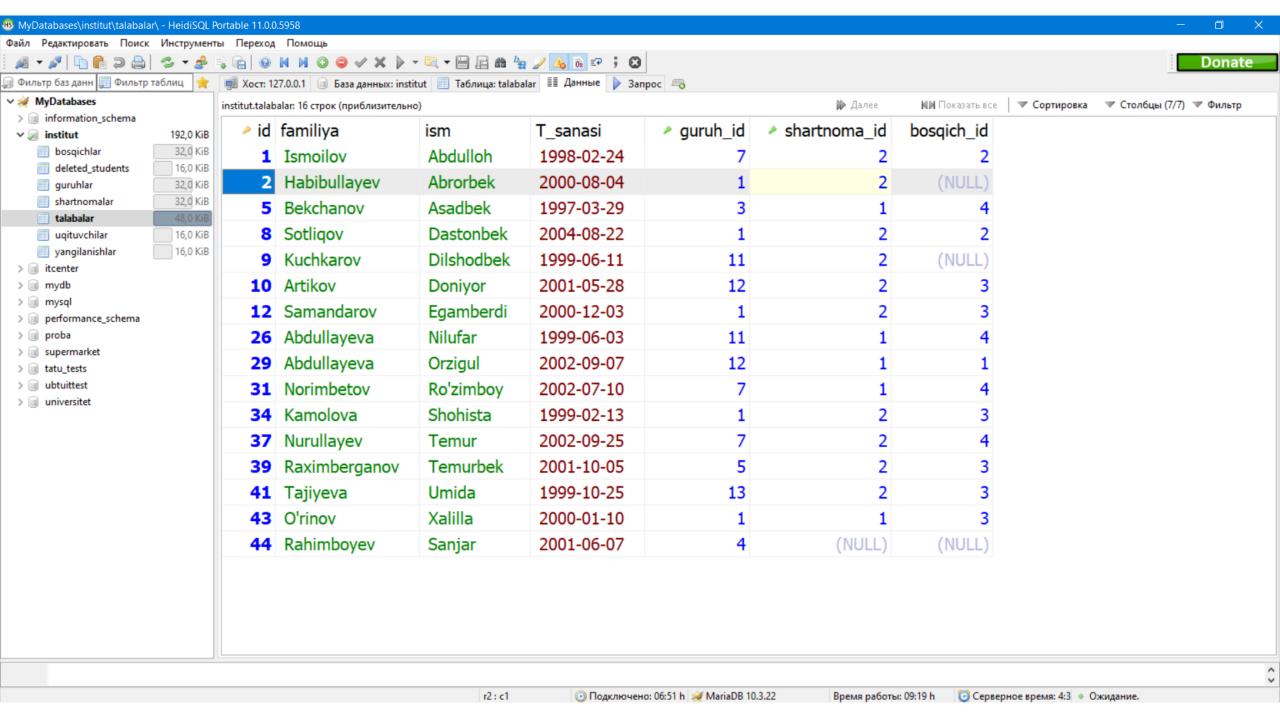
```
🔤 Администратор: Командная строка
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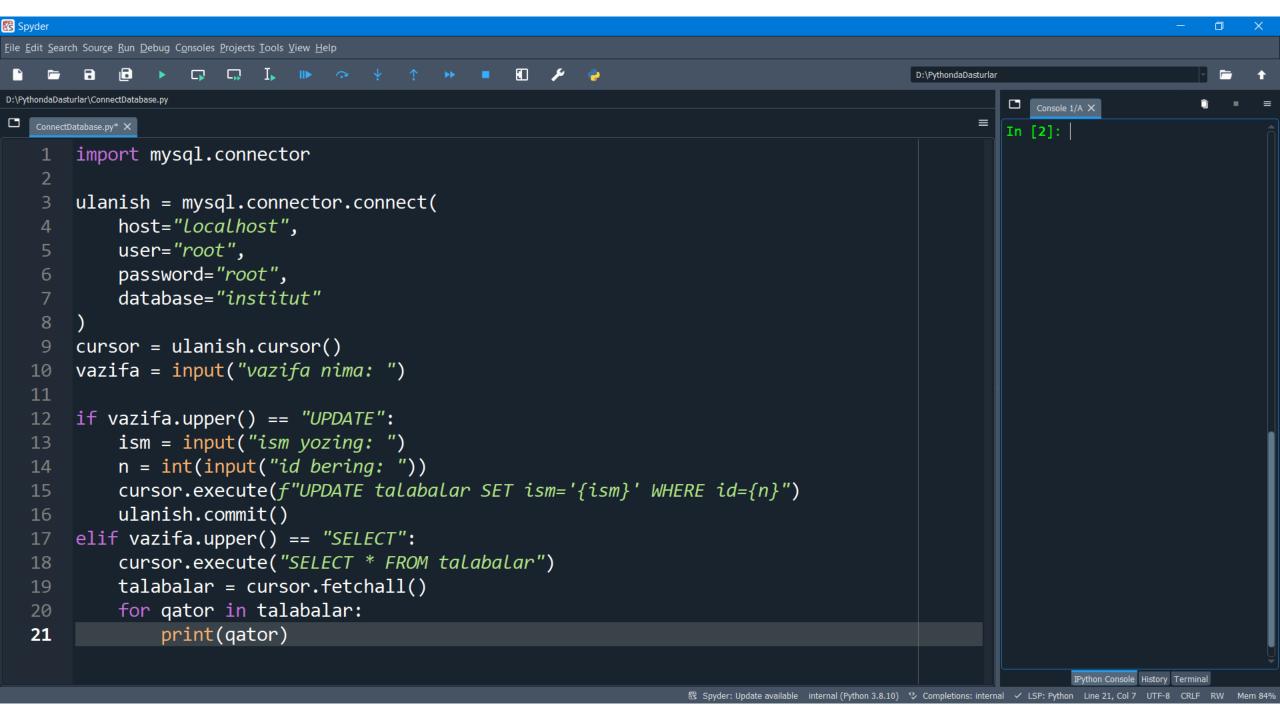
```
C:\Users\hp>python D:\PythondaDasturlar\ConnectDatabase.py
(1, 'Ismoilov', 'Abdulloh', datetime.date(1998, 2, 24), 7, 2, 2)
(2, 'Habibullayev', 'Abror', datetime.date(2000, 8, 4), 1, 2, None)
(5, 'Bekchanov', 'Asadbek', datetime.date(1997, 3, 29), 3, 1, 4)
(8, 'Sotliqov', 'Dastonbek', datetime.date(2004, 8, 22), 1, 2, 2)
(9, 'Kuchkarov', 'Dilshodbek', datetime.date(1999, 6, 11), 11, 2, None)
(10, 'Artikov', 'Doniyor', datetime.date(2001, 5, 28), 12, 2, 3)
(12, 'Samandarov', 'Egamberdi', datetime.date(2000, 12, 3), 1, 2, 3)
(26, 'Abdullayeva', 'Nilufar', datetime.date(1999, 6, 3), 11, 1, 4)
(29, 'Abdullayeva', 'Orzigul', datetime.date(2002, 9, 7), 12, 1, 1)
(31, 'Norimbetov', "Ro'zimboy", datetime.date(2002, 7, 10), 7, 1, 4)
(34, 'Kamolova', 'Shohista', datetime.date(1999, 2, 13), 1, 2, 3)
(37, 'Nurullayev', 'Temur', datetime.date(2002, 9, 25), 7, 2, 4)
(39, 'Raximberganov', 'Temurbek', datetime.date(2001, 10, 5), 5, 2, 3)
(41, 'Tajiyeva', 'Umida', datetime.date(1999, 10, 25), 13, 2, 3)
(43, "O'rinov", 'Xalilla', datetime.date(2000, 1, 10), 1, 1, 3)
(44, 'Rahimboyev', 'Sanjar', datetime.date(2001, 6, 7), 4, None, None)
```

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```
C:\Users\hp>python D:\PythondaDasturlar\ConnectDatabase.py
vazifa nima: select
(1, 'Ismoilov', 'Saidmurod', datetime.date(1998, 2, 24), 7, 2, 2)
(2, 'Habibullayev', 'Abror', datetime.date(2000, 8, 4), 1, 2, None)
(5, 'Bekchanov', 'Asadbek', datetime.date(1997, 3, 29), 3, 1, 4)
(8, 'Sotliqov', 'Dastonbek', datetime.date(2004, 8, 22), 1, 2, 2)
(9, 'Kuchkarov', 'Dilshodbek', datetime.date(1999, 6, 11), 11, 2, None)
(10, 'Artikov', 'Doniyor', datetime.date(2001, 5, 28), 12, 2, 3)
(12, 'Samandarov', 'Egamberdi', datetime.date(2000, 12, 3), 1, 2, 3)
(26, 'Abdullayeva', 'Nilufar', datetime.date(1999, 6, 3), 11, 1, 4)
(29, 'Abdullayeva', 'Orzigul', datetime.date(2002, 9, 7), 12, 1, 1)
(31, 'Norimbetov', "Ro'zimboy", datetime.date(2002, 7, 10), 7, 1, 4)
(34, 'Kamolova', 'Shohista', datetime.date(1999, 2, 13), 1, 2, 3)
(37, 'Nurullayev', 'Temur', datetime.date(2002, 9, 25), 7, 2, 4)
(39, 'Raximberganov', 'Temurbek', datetime.date(2001, 10, 5), 5, 2, 3)
(41, 'Tajiyeva', 'Umida', datetime.date(1999, 10, 25), 13, 2, 3)
(43, "O'rinov", 'Xalilla', datetime.date(2000, 1, 10), 1, 1, 3)
(44, 'Rahimboyev', 'Sanjar', datetime.date(2001, 6, 7), 4, None, None)
```

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Topshiriq: Institut ma'lumotlar bazasidagi uqituvchilar jadvali uchun python dasturlash tilidan foydalanib ushbu dasturni tuzing:

Jadvaldan tartib raqami x va y oraliqda bo'lgan uqituvchilarni z buyruq raqami bo'yicha so'rovni amalga oshiruvchi dastur tuzing. Bunda: z ning qiymati 1 yoki 2, Select-1, Delete-2 raqamlariga tegishli deb oling.

Kiruvchi ma'lumotlar: Bitta qatorda x,y,z butun sonlar

Chiquvchi ma'lumotlar: Barcha holat uchun Uqituvchilar jadvalidan, uqituvchilarning familiya, ism, sharifi, oyligi va telefon raqami ma'lumotlari, noto'g'ri son qiymatlar kiritilganda "noto'g'ri qiymatlar kiritildi" yozuvini chiqaring

