

Home work Data base 1

1. Устанавливаем MySQL

```
sudo apt update
sudo apt install mysql-server
sudo mysql_secure_installation
```

2. Сменим пароль для root

```
sudo mysql
ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY'Terminator22';
exit;
```

3. Авторизуемся и создадим базу данных

```
mysql -u root -p
CREATE DATABASE endangered_species;
USE endangered_species;
```

4. Создаём 3 таблицы в базе данных

```
CREATE TABLE Endangered (id INT AUTO_INCREMENT PRIMARY KEY, name VARCHAR(255), habitat VARCHAR(255), population INT, nutrition VARCHAR(255));
```

```
CREATE TABLE Critically_Endangered (id INT AUTO_INCREMENT PRIMARY KEY, name VARCHAR(255), habitat VARCHAR(255), population INT, nutrition VARCHAR(255));
```

```
CREATE TABLE Extinct (id INT AUTO_INCREMENT PRIMARY KEY, name VARCHAR(255), habitat VARCHAR(255), population INT, nutrition VARCHAR(255));
```

5. Внесём животных в таблицы

```
INSERT INTO Endangered (name, habitat, population, nutrition) VALUES ('Tiger', 'Forests', 2500, 'Predatory'), ('Bison', 'Reserves', 8461, 'Herbivorous'), ('Mountain sheep', 'Mountains', 1300, 'Herbivorous'), ('Antelope', 'Fields', 13500, 'Herbivorous'), ('White bear', 'South Pole', 20000, 'Omnivorous');
```

```
INSERT INTO Critically_Endangered (name, habitat, population, nutrition) VALUES ('Snow leopard', 'North', 90, 'Predatory'), ('White crane', 'Tundra', 500, 'Omnivorous'), ('Panda', 'Forests', 800, 'Omnivorous'), ('Enhydra', 'Sea', 1200, 'Predatory'), ('Sarcophilus', 'Fields', 900, 'Herbivorous');
```

```
INSERT INTO Extinct (name, habitat, population, nutrition) VALUES ('Dront', 'Islands', 0, 'Predatory'), ('Cwagga', 'Fields', 0, 'Herbivorous'), ('Moa', 'Forests', 0, 'Herbivorous'), ('Marsupial wolf', 'Forests', 0, 'Predatory'), ('Syrian kulan', 'Fields', 0, 'Herbivorous');
```

6. Выводим на экран содержимое каждой из таблиц

```
mysql> SELECT * FROM Endangered;
```

id	name	habitat	population	nutrition
1	Tiger	Forests	2500	Predatory
2	Bison	Reserves	8461	Herbivorous
3	Mountain sheep	Mountains	1300	Herbivorous
4	Antelope	Fields	13500	Herbivorous
5	White bear	South Pole	20000	Omnivorous

```
5 rows in set (0,01 sec)
```



```
mysql> SELECT * FROM Critically_Endangered;
```

id	name	habitat	population	nutrition
1	Snow leopard	North	90	Predatory
2	White crane	Tundra	500	Omnivorous
3	Panda	Forests	800	Omnivorous
4	Enhydra	Sea	1200	Predatory
5	Sarcophilus	Fields	900	Herbivorous

```
5 rows in set (0,00 sec)
```



```
mysql> SELECT * FROM Extinct;
```

id	name	habitat	population	nutrition
1	Dront	Islands	0	Predatory
2	Cwagga	Fields	0	Herbivorous
3	Moa	Forests	0	Herbivorous
4	Marsupial wolf	Forests	0	Predatory
5	Syrian kulan	Fields	0	Herbivorous

```
5 rows in set (0,00 sec)
```

```
mysql> 
```

- Выводим на экран животных с наименьшим количеством особей

```
mysql> SELECT * FROM Endangered ORDER BY population LIMIT 1;
```

```
+-----+-----+-----+-----+
| id | name          | habitat | population | nutrition |
+-----+-----+-----+-----+
| 3 | Mountain sheep | Mountains | 1300 | Herbivorous |
+-----+-----+-----+-----+
1 row in set (0,00 sec)
```

```
mysql> SELECT * FROM Critically_Endangered ORDER BY population LIMIT 1;
```

```
+-----+-----+-----+-----+
| id | name          | habitat | population | nutrition |
+-----+-----+-----+-----+
| 1 | Snow leopard | North | 90 | Predatory |
+-----+-----+-----+-----+
1 row in set (0,01 sec)
```

```
mysql> SELECT * FROM Extinct ORDER BY population LIMIT 1;
```

```
+-----+-----+-----+-----+
| id | name | habitat | population | nutrition |
+-----+-----+-----+-----+
| 1 | Dront | Islands | 0 | Predatory |
+-----+-----+-----+-----+
1 row in set (0,01 sec)
```

```
mysql> █
```