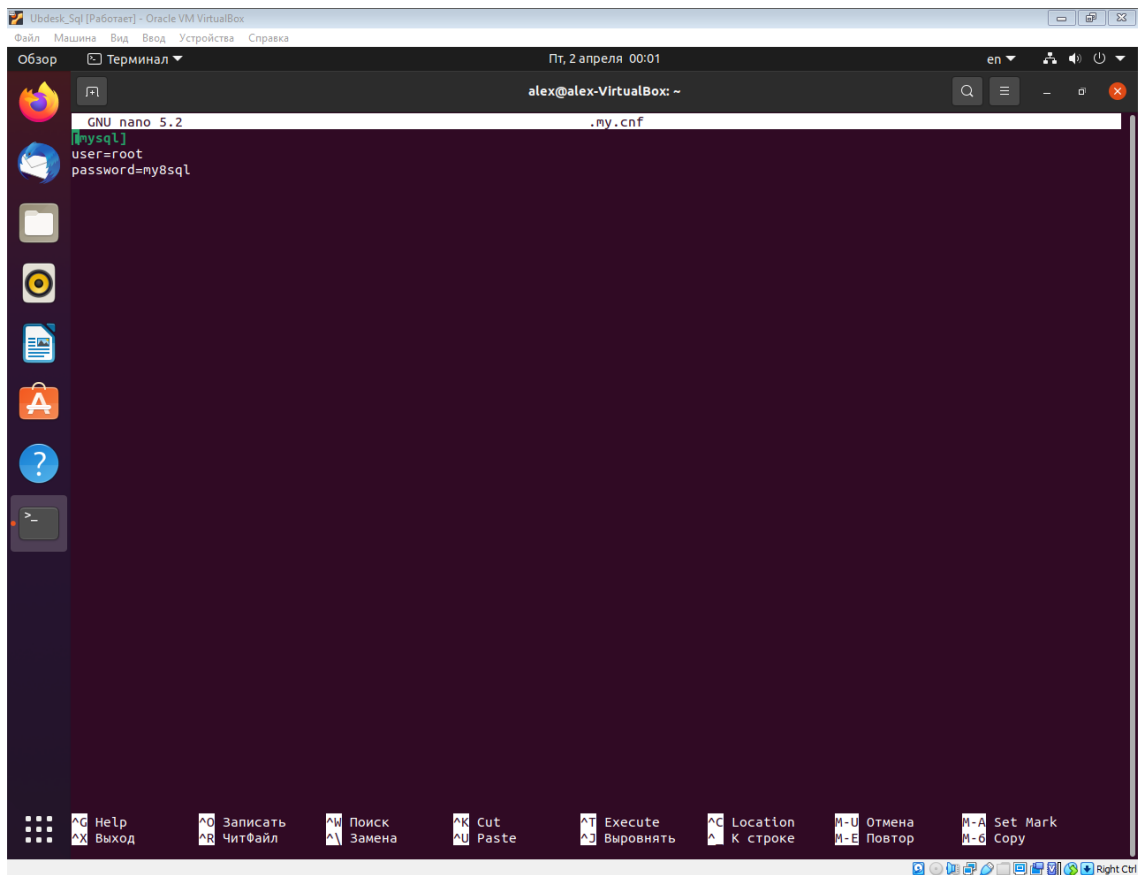
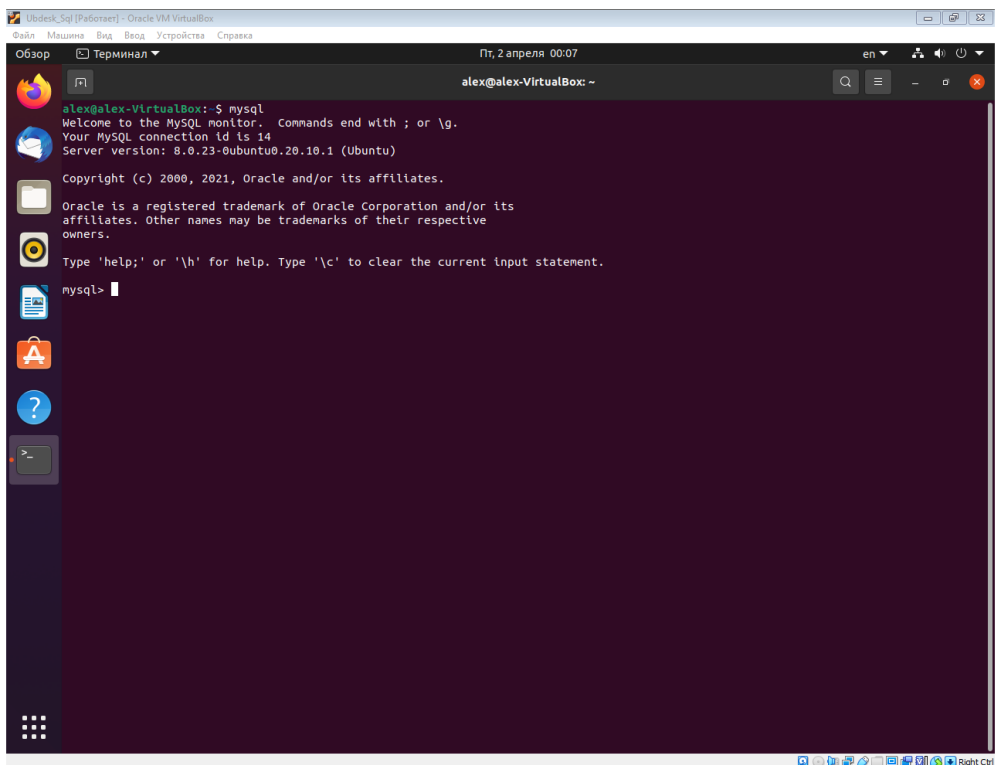


ДЗ к уроку № 2

1. Создание файла my.cnf



Создание файла my.cnf в редакторе nano ОС Ubuntu.



Проверка отработки файла my.cnf (Ubuntu)

```
Microsoft Windows [Version 10.0.19041.867]
(c) Корпорация Майкрософт (Microsoft Corporation), 2020. Все права защищены.

C:\Users\Alex>mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 58
Server version: 8.0.23 MySQL Community Server - GPL

Copyright (c) 2000, 2021, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

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

mysql>
```

Проверка работы файла my.cnf (Windows).

2. Создание базы данных example, таблицы users

```
alex@alex-VirtualBox: ~
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
4 rows in set (0.00 sec)

mysql> CREATE DATABASE example;
Query OK, 1 row affected (0.01 sec)

mysql> USE example;
Database changed
mysql> CREATE TABLE IF NOT EXISTS users (id SERIAL, name VARCHAR(127) NOT NULL UNIQUE);
Query OK, 0 rows affected (0.01 sec)

mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| example |
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
5 rows in set (0.00 sec)

mysql> SHOW TABLES;
+-----+
| Tables_in_example |
+-----+
| users |
+-----+
1 row in set (0.00 sec)

mysql>
```

Создание базы данных SHOW DATABASE example;

Создание таблицы CREATE TABLE users если не существует IF NOT EXISTS с двумя столбцами (id, name) с указанием типа данных, далее дополнительные параметры NOT NULL (не допускать пустых значений) и UNIQUE (значения должны быть уникальны). Далее проверяем результат.

```
Командная строка - mysql
Copyright (c) 2000, 2021, Oracle and/or its affiliates.

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affiliates. Other names may be trademarks of their respective
owners.

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

mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| mysql       |
| performance_schema |
| shop        |
| sys         |
+-----+
5 rows in set (0.01 sec)

mysql> CREATE DATABASE example;
Query OK, 1 row affected (0.01 sec)

mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| example   |
| information_schema |
| mysql       |
| performance_schema |
| shop        |
| sys         |
+-----+
6 rows in set (0.00 sec)

mysql> USE example;
Database changed
mysql> CREATE TABLE IF NOT EXISTS users (id SERIAL, name VARCHAR(127) NOT NULL UNIQUE);
Query OK, 0 rows affected (0.05 sec)

mysql> SHOW TABLES;
+-----+
| Tables_in_example |
+-----+
| users              |
+-----+
1 row in set (0.01 sec)

mysql>
```

Аналогичные действия в OS Windows.

3. Создание дампа базы данных example и восстановление в базу данных sample.

```
Udodesk_Sql [PaToaer] - Oracle VM VirtualBox
Файл  Машина  Вид  Ввод  Устройства  Справка

Обзор  Терминал  Пт, 2 апреля 01:14  en  [иконки]  [иконки]

alex@alex-VirtualBox: ~
alex@alex-VirtualBox:~$ mysqldump example > dump_example.sql
alex@alex-VirtualBox:~$ mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 15
Server version: 8.0.23-0ubuntu0.20.10.1 (Ubuntu)

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affiliates. Other names may be trademarks of their respective
owners.

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

mysql> CREATE DATABASE sample;
Query OK, 1 row affected (0.00 sec)

mysql> exit
Bye
alex@alex-VirtualBox:~$ mysql sample < dump_example.sql
alex@alex-VirtualBox:~$ mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 17
Server version: 8.0.23-0ubuntu0.20.10.1 (Ubuntu)

Copyright (c) 2000, 2021, Oracle and/or its affiliates.

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affiliates. Other names may be trademarks of their respective
owners.

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

mysql> USE sample;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

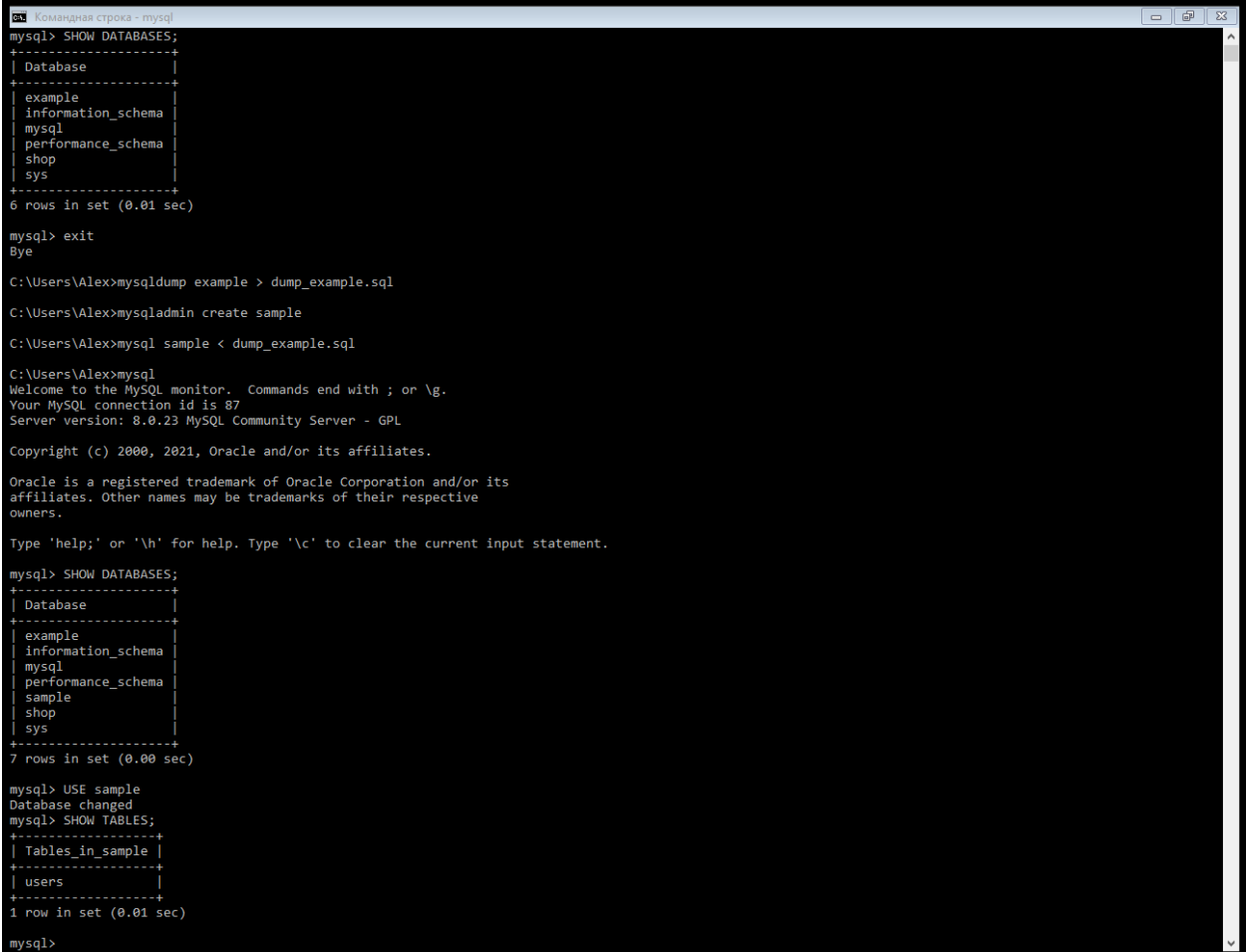
Database changed
mysql> SHOW TABLES;
+-----+
| Tables_in_sample |
+-----+
| users              |
+-----+
1 row in set (0.00 sec)

mysql>
```

Создание дампа (выполняется не входя в клиент mysql) `mysql example > dump_example.sql`

В клиенте mysql создаем чистую базу данных sample `CREATE DATABASE sample;`

Выходим из mysql и восстанавливаем базу из дампа `mysql sample < dump_example.sql;`



```
Командная строка - mysql
mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| example  |
| information_schema |
| mysql    |
| performance_schema |
| shop     |
| sys      |
+-----+
6 rows in set (0.01 sec)

mysql> exit
Bye

C:\Users\Alex>mysqldump example > dump_example.sql

C:\Users\Alex>mysqladmin create sample

C:\Users\Alex>mysql sample < dump_example.sql

C:\Users\Alex>mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 87
Server version: 8.0.23 MySQL Community Server - GPL

Copyright (c) 2000, 2021, Oracle and/or its affiliates.

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affiliates. Other names may be trademarks of their respective
owners.

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

mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| example  |
| information_schema |
| mysql    |
| performance_schema |
| sample   |
| shop     |
| sys      |
+-----+
7 rows in set (0.00 sec)

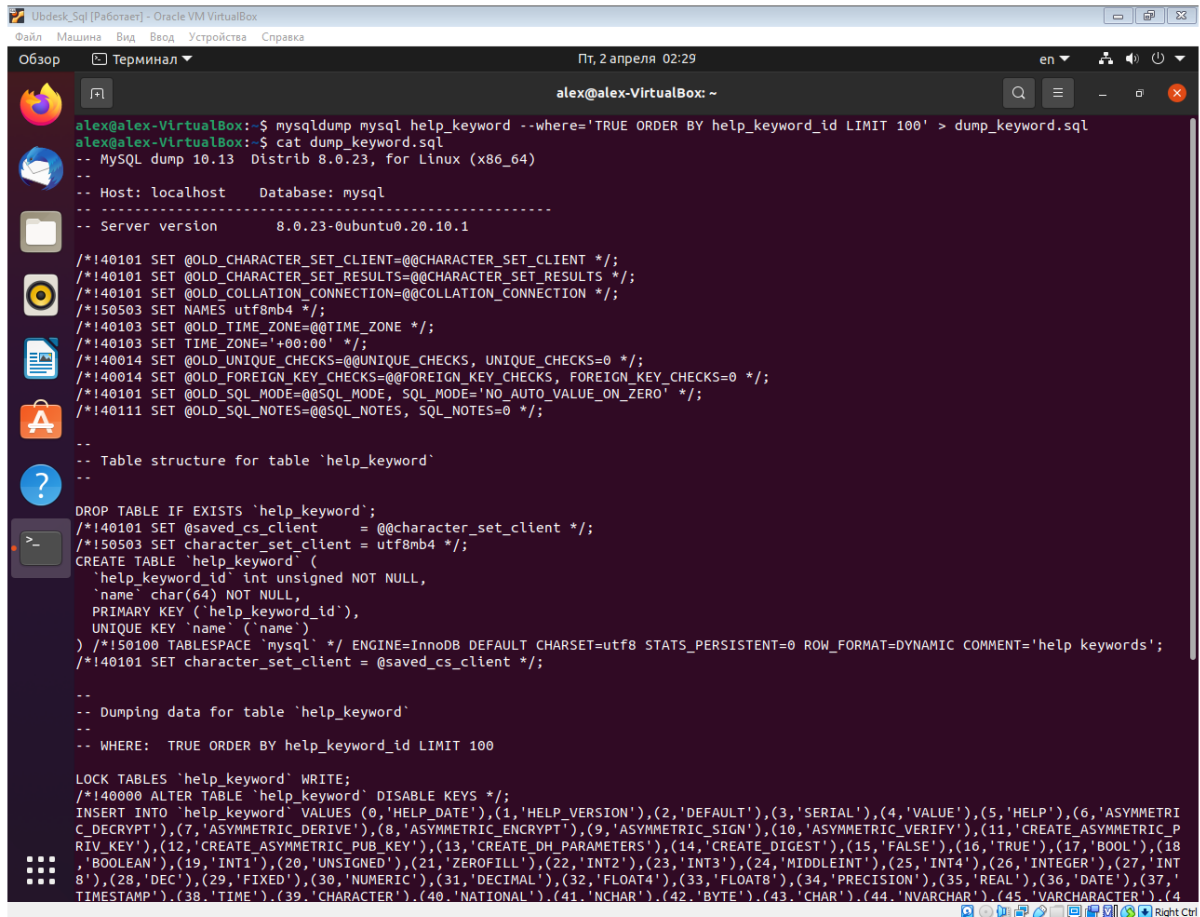
mysql> USE sample
Database changed
mysql> SHOW TABLES;
+-----+
| Tables_in_sample |
+-----+
| users             |
+-----+
1 row in set (0.01 sec)

mysql>
```

Аналогичные действия в ОС Windows с созданием базы данных без входа в mysql

Создание базы данных `mysqladmin create sample`

4. Создание дампа таблицы help_keyword базы данных mysql содержащего первые 100 строк



```
alex@alex-VirtualBox: ~  
alex@alex-VirtualBox:~$ mysqldump mysql help_keyword --where='TRUE ORDER BY help_keyword_id LIMIT 100' > dump_keyword.sql  
alex@alex-VirtualBox:~$ cat dump_keyword.sql  
-- MySQL dump 10.13 Distrib 8.0.23, for Linux (x86_64)  
--  
-- Host: localhost    Database: mysql  
--  
-- Server version      8.0.23-0ubuntu0.20.10.1  
--  
/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;  
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;  
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;  
/*!50503 SET NAMES utf8mb4 */;  
/*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;  
/*!40103 SET TIME_ZONE='+00:00' */;  
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;  
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0 */;  
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;  
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;  
--  
-- Table structure for table `help_keyword`  
--  
DROP TABLE IF EXISTS `help_keyword`;  
/*!40101 SET @saved_cs_client      = @@character_set_client */;  
/*!50503 SET character_set_client = utf8mb4 */;  
CREATE TABLE `help_keyword` (  
  `help_keyword_id` int unsigned NOT NULL,  
  `name` char(64) NOT NULL,  
  PRIMARY KEY (`help_keyword_id`),  
  UNIQUE KEY `name` (`name`)  
) /*!50100 TABLESPACE `mysql` */ ENGINE=InnoDB DEFAULT CHARSET=utf8 STATS_PERSISTENT=0 ROW_FORMAT=DYNAMIC COMMENT='help keywords';  
/*!40101 SET character_set_client = @saved_cs_client */;  
--  
-- Dumping data for table `help_keyword`  
--  
-- WHERE: TRUE ORDER BY help_keyword_id LIMIT 100  
--  
LOCK TABLES `help_keyword` WRITE;  
/*!40000 ALTER TABLE `help_keyword` DISABLE KEYS */;  
INSERT INTO `help_keyword` VALUES (0,'HELP_DATE'),(1,'HELP_VERSION'),(2,'DEFAULT'),(3,'SERIAL'),(4,'VALUE'),(5,'HELP'),(6,'ASYMMETRIC_DECRYPT'),(7,'ASYMMETRIC_DERIVE'),(8,'ASYMMETRIC_ENCRYPT'),(9,'ASYMMETRIC_SIGN'),(10,'ASYMMETRIC_VERIFY'),(11,'CREATE_ASYMMETRIC_PRIVATE_KEY'),(12,'CREATE_ASYMMETRIC_PUB_KEY'),(13,'CREATE_DH_PARAMETERS'),(14,'CREATE_DIGEST'),(15,'FALSE'),(16,'TRUE'),(17,'BOOL'),(18,'BOOLEAN'),(19,'INT1'),(20,'UNSIGNED'),(21,'ZEROFILL'),(22,'INT2'),(23,'INT3'),(24,'MIDDLEINT'),(25,'INT4'),(26,'INTEGER'),(27,'INT8'),(28,'DEC'),(29,'FIXED'),(30,'NUMERIC'),(31,'DECIMAL'),(32,'FLOAT4'),(33,'FLOAT8'),(34,'PRECISION'),(35,'REAL'),(36,'DATE'),(37,'TIMESTAMP'),(38,'TIME'),(39,'CHARACTER'),(40,'NATIONAL'),(41,'NCHAR'),(42,'BYTE'),(43,'CHAR'),(44,'NVARCHAR'),(45,'VARCHARACTER'),(4
```

```
mysqldump mysql help_keyword --where='TRUE ORDER BY help_keyword_id LIMIT 100' >  
dump_keyword.sql
```

(Создание дампа базы mysql таблицы help_keyword где условие TRUE (истина) с сортировкой по id и лимитом в 100 строк с сохранением в файл > dump_keyword.sql)