

Задание

1. Используя команду `cat` в терминале операционной системы Linux, создать два файла Домашние животные (заполнив файл собаками, кошками, хомяками) и Вьючные животными заполнив файл Лошадьми, верблюдами и ослы), а затем объединить их. Просмотреть содержимое созданного файла. Переименовать файл, дав ему новое имя (Друзья человека).

Решение:

```
machesnokov@ubuntu-home2:~$ cat > HomeAnimals
cats
dogs
hamsters
machesnokov@ubuntu-home2:~$ cat > PackAnimals
horses
camels
donkeys
machesnokov@ubuntu-home2:~$ cat HomeAnimals >> PackAnimals
machesnokov@ubuntu-home2:~$ cat PackAnimals
horses
camels
donkeys
cats
dogs
hamsters
machesnokov@ubuntu-home2:~$ mv PackAnimals FriendsMan
machesnokov@ubuntu-home2:~$ cat FriendsMan
horses
camels
donkeys
cats
dogs
hamsters
machesnokov@ubuntu-home2:~$
```

2. Создать директорию, переместить файл туда.

Решение:

```
machesnokov@ubuntu-home2:~$ mkdir itog
machesnokov@ubuntu-home2:~$ mv FriendsMan ./itog/
machesnokov@ubuntu-home2:~$ ls -la ./itog/
```

```
total 12
drwxrwxr-x 2 machesnokov machesnokov 4096 Mar  2 19:32 .
drwxr-x--- 8 machesnokov machesnokov 4096 Mar  2 19:32 ..
-rw-rw-r-- 1 machesnokov machesnokov  41 Mar  2 19:22 FriendsMan
machesnokov@ubuntu-home2:~$
```

3. Подключить дополнительный репозиторий MySQL. Установить любой пакет из этого репозитория.

Решение:

```
machesnokov@ubuntu-home2:~$ wget
```

```
https://dev.mysql.com/get/mysql-apt-config\_0.8.24-1\_all.deb
```

```
--2023-03-02 19:55:48-- https://dev.mysql.com/get/mysql-apt-config_0.8.24-1_all.deb
Resolving dev.mysql.com (dev.mysql.com)... 23.61.243.80, 2a02:2d8:0:7987::2e31,
2a02:2d8:0:799e::2e31
```

```
Connecting to dev.mysql.com (dev.mysql.com)|23.61.243.80|:443... connected.
```

```
HTTP request sent, awaiting response... 302 Moved Temporarily
```

```
Location: https://repo.mysql.com//mysql-apt-config\_0.8.24-1\_all.deb [following]
```

```
--2023-03-02 19:55:49-- https://repo.mysql.com//mysql-apt-config_0.8.24-1_all.deb
```

```
Resolving repo.mysql.com (repo.mysql.com)... 184.50.200.228
```

```
Connecting to repo.mysql.com (repo.mysql.com)|184.50.200.228|:443... connected.
```

```
HTTP request sent, awaiting response... 200 OK
```

```
Length: 18048 (18K) [application/x-debian-package]
```

```
Saving to: 'mysql-apt-config_0.8.24-1_all.deb'
```

```
mysql-apt-config_0.8.24-1_all.deb
```

```
100%[=====>
] 17.62K --.-KB/s in 0s
```

```
2023-03-02 19:55:49 (269 MB/s) - 'mysql-apt-config_0.8.24-1_all.deb' saved [18048/18048]
```

```
machesnokov@ubuntu-home2:~$ sudo dpkg -i mysql-apt-config_0.8.24-1_all.deb
```

Проверяем как прописался и подключается репозиторий при update:

```
machesnokov@ubuntu-home2:~$ ls -la /etc/apt/sources.list.d/
```

```
total 16
```

```
drwxr-xr-x 2 root root 4096 Mar  2 19:58 .
```

```
drwxr-xr-x 8 root root 4096 Mar  2 19:58 ..
```

```
-rw-r--r-- 1 root root 112 Feb 18 10:11 docker.list
```

```
-rw-r--r-- 1 root root 495 Mar  2 19:58 mysql.list
```

```
machesnokov@ubuntu-home2:~$ cat /etc/apt/sources.list.d/mysql.list
```

```
### THIS FILE IS AUTOMATICALLY CONFIGURED ###
```

```
# You may comment out entries below, but any other modifications may be lost.
```

```
# Use command 'dpkg-reconfigure mysql-apt-config' as root for modifications.
```

```
deb http://repo.mysql.com/apt/ubuntu/ jammy mysql-apt-config
```

```
deb http://repo.mysql.com/apt/ubuntu/ jammy mysql-8.0
deb http://repo.mysql.com/apt/ubuntu/ jammy mysql-tools
#deb http://repo.mysql.com/apt/ubuntu/ jammy mysql-tools-preview
deb-src http://repo.mysql.com/apt/ubuntu/ jammy mysql-8.0
machesnokov@ubuntu-home2:~$ sudo apt update
Hit:1 http://ru.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://ru.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://repo.mysql.com/apt/ubuntu jammy InRelease [15.2 kB]
Hit:4 https://download.docker.com/linux/ubuntu jammy InRelease
Get:5 http://ru.archive.ubuntu.com/ubuntu jammy-backports InRelease [107 kB]
Get:6 http://repo.mysql.com/apt/ubuntu jammy/mysql-8.0 Sources [966 B]
Get:7 http://repo.mysql.com/apt/ubuntu jammy/mysql-apt-config amd64 Packages [565 B]
Get:8 http://repo.mysql.com/apt/ubuntu jammy/mysql-8.0 amd64 Packages [8555 B]
Get:9 http://repo.mysql.com/apt/ubuntu jammy/mysql-tools amd64 Packages [7905 B]
Get:10 http://ru.archive.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:11 http://ru.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [939 kB]
Get:12 http://ru.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [203 kB]
Get:13 http://ru.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [680
kB]
Get:14 http://ru.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [106
kB]
Get:15 http://ru.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [877
kB]
Get:16 http://ru.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [172 kB]
Get:17 http://ru.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages
[9692 B]
Get:18 http://ru.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages
[19.5 kB]
Get:19 http://ru.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [14.0
kB]
Get:20 http://ru.archive.ubuntu.com/ubuntu jammy-security/main amd64 Packages [680 kB]
Get:21 http://ru.archive.ubuntu.com/ubuntu jammy-security/main Translation-en [139 kB]
Get:22 http://ru.archive.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [637
kB]
Get:23 http://ru.archive.ubuntu.com/ubuntu jammy-security/restricted Translation-en [99.7
kB]
Get:24 http://ru.archive.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [696
kB]
Get:25 http://ru.archive.ubuntu.com/ubuntu jammy-security/universe Translation-en [111 kB]
Fetched 5751 kB in 5s (1135 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
17 packages can be upgraded. Run 'apt list --upgradable' to see them.
W: http://repo.mysql.com/apt/ubuntu/dists/jammy/InRelease: Key is stored in legacy
trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for
details.
machesnokov@ubuntu-home2:~$
```

Устанавливаем из этого репозитория компонент `mysql-server`

`machesnokov@ubuntu-home2:~$ sudo apt install mysql-server`

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

The following additional packages will be installed:

libmecab2 libnuma1 mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client
mysql-common mysql-community-client
mysql-community-client-core mysql-community-client-plugins mysql-community-server
mysql-community-server-core

The following NEW packages will be installed:

libmecab2 libnuma1 mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client
mysql-common mysql-community-client
mysql-community-client-core mysql-community-client-plugins mysql-community-server
mysql-community-server-core mysql-server

0 upgraded, 13 newly installed, 0 to remove and 5 not upgraded.

Need to get 38.3 MB of archives.

After this operation, 273 MB of additional disk space will be used.

Do you want to continue? [Y/n] y

Get:1 <http://repo.mysql.com/apt/ubuntu/jammy/mysql-8.0 amd64> mysql-common amd64
8.0.32-1ubuntu22.04 [68.6 kB]

Get:2 <http://ru.archive.ubuntu.com/ubuntu/jammy/main amd64> libmecab2 amd64
0.996-14build9 [199 kB]

Get:3 <http://repo.mysql.com/apt/ubuntu/jammy/mysql-8.0 amd64>
mysql-community-client-plugins amd64 8.0.32-1ubuntu22.04 [1437 kB]

Get:4 <http://ru.archive.ubuntu.com/ubuntu/jammy/main amd64> libnuma1 amd64
2.0.14-3ubuntu2 [22.5 kB]

Get:5 <http://ru.archive.ubuntu.com/ubuntu/jammy/main amd64> mecab-utils amd64
0.996-14build9 [4850 B]

Get:6 <http://ru.archive.ubuntu.com/ubuntu/jammy/main amd64> mecab-ipadic all
2.7.0-20070801+main-3 [6718 kB]

Get:7 <http://repo.mysql.com/apt/ubuntu/jammy/mysql-8.0 amd64>
mysql-community-client-core amd64 8.0.32-1ubuntu22.04 [2184 kB]

Get:8 <http://repo.mysql.com/apt/ubuntu/jammy/mysql-8.0 amd64> mysql-community-client
amd64 8.0.32-1ubuntu22.04 [2458 kB]

Get:9 <http://repo.mysql.com/apt/ubuntu/jammy/mysql-8.0 amd64> mysql-client amd64
8.0.32-1ubuntu22.04 [67.3 kB]

Get:10 <http://repo.mysql.com/apt/ubuntu/jammy/mysql-8.0 amd64>
mysql-community-server-core amd64 8.0.32-1ubuntu22.04 [25.0 MB]

Get:11 <http://repo.mysql.com/apt/ubuntu/jammy/mysql-8.0 amd64> mysql-community-server
amd64 8.0.32-1ubuntu22.04 [79.1 kB]

Get:12 <http://repo.mysql.com/apt/ubuntu/jammy/mysql-8.0 amd64> mysql-server amd64
8.0.32-1ubuntu22.04 [67.3 kB]

Get:13 <http://ru.archive.ubuntu.com/ubuntu/jammy/main amd64> mecab-ipadic-utf8 all
2.7.0-20070801+main-3 [4384 B]

Fetch 38.3 MB in 9s (4316 kB/s)

debconf: delaying package configuration, since apt-utils is not installed
Selecting previously unselected package mysql-common.
(Reading database ... 103522 files and directories currently installed.)
Preparing to unpack .../00-mysql-common_8.0.32-1ubuntu22.04_amd64.deb ...
Unpacking mysql-common (8.0.32-1ubuntu22.04) ...
Selecting previously unselected package mysql-community-client-plugins.
Preparing to unpack
.../01-mysql-community-client-plugins_8.0.32-1ubuntu22.04_amd64.deb ...
Unpacking mysql-community-client-plugins (8.0.32-1ubuntu22.04) ...
Selecting previously unselected package mysql-community-client-core.
Preparing to unpack .../02-mysql-community-client-core_8.0.32-1ubuntu22.04_amd64.deb ...
Unpacking mysql-community-client-core (8.0.32-1ubuntu22.04) ...
Selecting previously unselected package mysql-community-client.
Preparing to unpack .../03-mysql-community-client_8.0.32-1ubuntu22.04_amd64.deb ...
Unpacking mysql-community-client (8.0.32-1ubuntu22.04) ...
Selecting previously unselected package mysql-client.
Preparing to unpack .../04-mysql-client_8.0.32-1ubuntu22.04_amd64.deb ...
Unpacking mysql-client (8.0.32-1ubuntu22.04) ...
Selecting previously unselected package libmecab2:amd64.
Preparing to unpack .../05-libmecab2_0.996-14build9_amd64.deb ...
Unpacking libmecab2:amd64 (0.996-14build9) ...
Selecting previously unselected package libnuma1:amd64.
Preparing to unpack .../06-libnuma1_2.0.14-3ubuntu2_amd64.deb ...
Unpacking libnuma1:amd64 (2.0.14-3ubuntu2) ...
Selecting previously unselected package mysql-community-server-core.
Preparing to unpack .../07-mysql-community-server-core_8.0.32-1ubuntu22.04_amd64.deb
...
Unpacking mysql-community-server-core (8.0.32-1ubuntu22.04) ...
Selecting previously unselected package mysql-community-server.
Preparing to unpack .../08-mysql-community-server_8.0.32-1ubuntu22.04_amd64.deb ...
Unpacking mysql-community-server (8.0.32-1ubuntu22.04) ...
Selecting previously unselected package mecab-utils.
Preparing to unpack .../09-mecab-utils_0.996-14build9_amd64.deb ...
Unpacking mecab-utils (0.996-14build9) ...
Selecting previously unselected package mecab-ipadic.
Preparing to unpack .../10-mecab-ipadic_2.7.0-20070801+main-3_all.deb ...
Unpacking mecab-ipadic (2.7.0-20070801+main-3) ...
Selecting previously unselected package mecab-ipadic-utf8.
Preparing to unpack .../11-mecab-ipadic-utf8_2.7.0-20070801+main-3_all.deb ...
Unpacking mecab-ipadic-utf8 (2.7.0-20070801+main-3) ...
Selecting previously unselected package mysql-server.
Preparing to unpack .../12-mysql-server_8.0.32-1ubuntu22.04_amd64.deb ...
Unpacking mysql-server (8.0.32-1ubuntu22.04) ...
Setting up libmecab2:amd64 (0.996-14build9) ...
Setting up mysql-common (8.0.32-1ubuntu22.04) ...
Setting up mecab-utils (0.996-14build9) ...
Setting up libnuma1:amd64 (2.0.14-3ubuntu2) ...
Setting up mysql-community-client-plugins (8.0.32-1ubuntu22.04) ...

```

Setting up mecab-ipadic (2.7.0-20070801+main-3) ...
Compiling IPA dictionary for Mecab. This takes long time...
reading /usr/share/mecab/dic/ipadic/unk.def ... 40
emitting double-array: 100% |#####|
/usr/share/mecab/dic/ipadic/model.def is not found. skipped.
reading /usr/share/mecab/dic/ipadic/Noun.name.csv ... 34202
reading /usr/share/mecab/dic/ipadic/Noun.others.csv ... 151
reading /usr/share/mecab/dic/ipadic/Verb.csv ... 130750
reading /usr/share/mecab/dic/ipadic/Symbol.csv ... 208
reading /usr/share/mecab/dic/ipadic/Auxil.csv ... 199
reading /usr/share/mecab/dic/ipadic/Noun.org.csv ... 16668
reading /usr/share/mecab/dic/ipadic/Adj.csv ... 27210
reading /usr/share/mecab/dic/ipadic/Noun.proper.csv ... 27328
reading /usr/share/mecab/dic/ipadic/Noun.advj.csv ... 3328
reading /usr/share/mecab/dic/ipadic/Noun.demonst.csv ... 120
reading /usr/share/mecab/dic/ipadic/Adverb.csv ... 3032
reading /usr/share/mecab/dic/ipadic/Suffix.csv ... 1393
reading /usr/share/mecab/dic/ipadic/Noun.verbal.csv ... 12146
reading /usr/share/mecab/dic/ipadic/Others.csv ... 2
reading /usr/share/mecab/dic/ipadic/Noun.number.csv ... 42
reading /usr/share/mecab/dic/ipadic/Noun.place.csv ... 72999
reading /usr/share/mecab/dic/ipadic/Noun.nai.csv ... 42
reading /usr/share/mecab/dic/ipadic/Filler.csv ... 19
reading /usr/share/mecab/dic/ipadic/Prefix.csv ... 221
reading /usr/share/mecab/dic/ipadic/Noun.adverbal.csv ... 795
reading /usr/share/mecab/dic/ipadic/Interjection.csv ... 252
reading /usr/share/mecab/dic/ipadic/Conjunction.csv ... 171
reading /usr/share/mecab/dic/ipadic/Adnominal.csv ... 135
reading /usr/share/mecab/dic/ipadic/Postp.csv ... 146
reading /usr/share/mecab/dic/ipadic/Postp-col.csv ... 91
reading /usr/share/mecab/dic/ipadic/Noun.csv ... 60477
emitting double-array: 100% |#####|
reading /usr/share/mecab/dic/ipadic/matrix.def ... 1316x1316
emitting matrix    : 100% |#####|

done!
update-alternatives: using /var/lib/mecab/dic/ipadic to provide /var/lib/mecab/dic/debian
(mecab-dictionary) in auto mode
Setting up mysql-community-client-core (8.0.32-1ubuntu22.04) ...
Setting up mysql-community-server-core (8.0.32-1ubuntu22.04) ...
Setting up mecab-ipadic-utf8 (2.7.0-20070801+main-3) ...
Compiling IPA dictionary for Mecab. This takes long time...
reading /usr/share/mecab/dic/ipadic/unk.def ... 40
emitting double-array: 100% |#####|
/usr/share/mecab/dic/ipadic/model.def is not found. skipped.
reading /usr/share/mecab/dic/ipadic/Noun.name.csv ... 34202
reading /usr/share/mecab/dic/ipadic/Noun.others.csv ... 151
reading /usr/share/mecab/dic/ipadic/Verb.csv ... 130750

```

reading /usr/share/mecab/dic/ipadic/Symbol.csv ... 208
reading /usr/share/mecab/dic/ipadic/Auxil.csv ... 199
reading /usr/share/mecab/dic/ipadic/Noun.org.csv ... 16668
reading /usr/share/mecab/dic/ipadic/Adj.csv ... 27210
reading /usr/share/mecab/dic/ipadic/Noun.proper.csv ... 27328
reading /usr/share/mecab/dic/ipadic/Noun.adjv.csv ... 3328
reading /usr/share/mecab/dic/ipadic/Noun.demonst.csv ... 120
reading /usr/share/mecab/dic/ipadic/Adverb.csv ... 3032
reading /usr/share/mecab/dic/ipadic/Suffix.csv ... 1393
reading /usr/share/mecab/dic/ipadic/Noun.verbal.csv ... 12146
reading /usr/share/mecab/dic/ipadic/Others.csv ... 2
reading /usr/share/mecab/dic/ipadic/Noun.number.csv ... 42
reading /usr/share/mecab/dic/ipadic/Noun.place.csv ... 72999
reading /usr/share/mecab/dic/ipadic/Noun.nai.csv ... 42
reading /usr/share/mecab/dic/ipadic/Filler.csv ... 19
reading /usr/share/mecab/dic/ipadic/Prefix.csv ... 221
reading /usr/share/mecab/dic/ipadic/Noun.adverbal.csv ... 795
reading /usr/share/mecab/dic/ipadic/Interjection.csv ... 252
reading /usr/share/mecab/dic/ipadic/Conjunction.csv ... 171
reading /usr/share/mecab/dic/ipadic/Adnominal.csv ... 135
reading /usr/share/mecab/dic/ipadic/Postp.csv ... 146
reading /usr/share/mecab/dic/ipadic/Postp-col.csv ... 91
reading /usr/share/mecab/dic/ipadic/Noun.csv ... 60477
emitting double-array: 100% |#####|
reading /usr/share/mecab/dic/ipadic/matrix.def ... 1316x1316
emitting matrix : 100% |#####|

done!

update-alternatives: using /var/lib/mecab/dic/ipadic-utf8 to provide /var/lib/mecab/dic/debian (mecab-dictionary) in auto mode

Setting up mysql-community-client (8.0.32-1ubuntu22.04) ...

Setting up mysql-client (8.0.32-1ubuntu22.04) ...

Setting up mysql-community-server (8.0.32-1ubuntu22.04) ...

debconf: unable to initialize frontend: Dialog

debconf: (No usable dialog-like program is installed, so the dialog based frontend cannot be used. at /usr/share/perl5/Debconf/FrontEnd/Dialog.pm line 78.)

debconf: falling back to frontend: Readline

mysql.service is a disabled or a static unit not running, not starting it.

mysql.service is a disabled or a static unit not running, not starting it.

Setting up mysql-server (8.0.32-1ubuntu22.04) ...

Processing triggers for libc-bin (2.35-0ubuntu3.1) ...

debconf: unable to initialize frontend: Dialog

debconf: (No usable dialog-like program is installed, so the dialog based frontend cannot be used. at /usr/share/perl5/Debconf/FrontEnd/Dialog.pm line 78.)

debconf: falling back to frontend: Readline

Scanning processes...

Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.

machesnokov@ubuntu-home2:~\$ sudo systemctl status mysql

- mysql.service - MySQL Community Server
 - Loaded: loaded (/lib/systemd/system/mysql.service; disabled; vendor preset: enabled)
 - Active: inactive (dead)
 - Docs: man:mysqld(8)
<http://dev.mysql.com/doc/refman/en/using-systemd.html>

machesnokov@ubuntu-home2:~\$ sudo systemctl start mysql

machesnokov@ubuntu-home2:~\$ sudo systemctl status mysql

- mysql.service - MySQL Community Server
 - Loaded: loaded (/lib/systemd/system/mysql.service; disabled; vendor preset: enabled)
 - Active: active (running) since Sat 2023-03-04 14:02:43 UTC; 2s ago
 - Docs: man:mysqld(8)
<http://dev.mysql.com/doc/refman/en/using-systemd.html>
 - Process: 1396 ExecStartPre=/usr/share/mysql-8.0/mysql-systemd-start pre (code=exited, status=0/SUCCESS)
 - Main PID: 1550 (mysqld)
 - Status: "Server is operational"
 - Tasks: 39 (limit: 2234)
 - Memory: 362.2M
 - CPU: 4.514s
 - CGroup: /system.slice/mysql.service
 - └─1550 /usr/sbin/mysqld

Mar 04 14:02:26 ubuntu-home2 su[1437]: (to mysql) root on none

Mar 04 14:02:26 ubuntu-home2 su[1437]: pam_unix(su-l:session): session opened for user mysql(uid=108) by (uid=0)

Mar 04 14:02:42 ubuntu-home2 mysqld[1550]: 2023-03-04T14:02:42.930582Z 0 [System] [MY-010116] [Server] /usr/sbin/mysqld (mysqld 8.0.32) star>

Mar 04 14:02:42 ubuntu-home2 mysqld[1550]: 2023-03-04T14:02:42.939121Z 1 [System] [MY-013576] [InnoDB] InnoDB initialization has started.

Mar 04 14:02:43 ubuntu-home2 mysqld[1550]: 2023-03-04T14:02:43.572677Z 1 [System] [MY-013577] [InnoDB] InnoDB initialization has ended.

Mar 04 14:02:43 ubuntu-home2 mysqld[1550]: 2023-03-04T14:02:43.949808Z 0 [Warning] [MY-010068] [Server] CA certificate ca.pem is self signed.

Mar 04 14:02:43 ubuntu-home2 mysqld[1550]: 2023-03-04T14:02:43.950179Z 0 [System] [MY-013602] [Server] Channel mysql_main configured to supp>

Mar 04 14:02:43 ubuntu-home2 mysqld[1550]: 2023-03-04T14:02:43.982135Z 0 [System] [MY-011323] [Server] X Plugin ready for connections. Bind->


```
Mar 04 14:02:43 ubuntu-home2 mysqld[1550]: 2023-03-04T14:02:43.982429Z 0 [System]
[MY-010931] [Server] /usr/sbin/mysqld: ready for connectio>
Mar 04 14:02:43 ubuntu-home2 systemd[1]: Started MySQL Community Server.
machesnokov@ubuntu-home2:~$
```

4. Установить и удалить deb-пакет с помощью dpkg.

```
machesnokov@ubuntu-home2:~$ apt download apache2
```

```
Get:1 http://ru.archive.ubuntu.com/ubuntu jammy-updates/main amd64 apache2 amd64
2.4.52-1ubuntu4.3 [97.9 kB]
```

```
Fetched 97.9 kB in 0s (278 kB/s)
```

```
machesnokov@ubuntu-home2:~$ sudo dpkg -i
apache2_2.4.52-1ubuntu4.3_amd64.deb
```

```
Selecting previously unselected package apache2.
```

```
(Reading database ... 103836 files and directories currently installed.)
```

```
Preparing to unpack apache2_2.4.52-1ubuntu4.3_amd64.deb ...
```

```
Unpacking apache2 (2.4.52-1ubuntu4.3) ...
```

```
dpkg: dependency problems prevent configuration of apache2:
```

```
apache2 depends on apache2-bin (= 2.4.52-1ubuntu4.3); however:
```

```
Package apache2-bin is not installed.
```

```
apache2 depends on apache2-data (= 2.4.52-1ubuntu4.3); however:
```

```
Package apache2-data is not installed.
```

```
apache2 depends on apache2-utils (= 2.4.52-1ubuntu4.3); however:
```

```
Package apache2-utils is not installed.
```

```
dpkg: error processing package apache2 (--install):
```

```
dependency problems - leaving unconfigured
```

```
Errors were encountered while processing:
```

```
apache2
```

Устанавливаем зависимости, которые необходимы для работы apache2

```
machesnokov@ubuntu-home2:~$ sudo apt -f install
```

```
Reading package lists... Done
```

```
Building dependency tree... Done
```

```
Reading state information... Done
```

```
Correcting dependencies... Done
```

```
The following additional packages will be installed:
```

```
apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3
libaprutil1-ldap libjansson4 liblua5.3-0
```

```
Suggested packages:
```

```
apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser
```

```
The following NEW packages will be installed:
```

```
apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3
libaprutil1-ldap libjansson4 liblua5.3-0
```

```
0 upgraded, 9 newly installed, 0 to remove and 5 not upgraded.
```

```
1 not fully installed or removed.
```

Need to get 1992 kB of archives.

After this operation, 7763 kB of additional disk space will be used.

Do you want to continue? [Y/n] y

Get:1 <http://ru.archive.ubuntu.com/ubuntu/jammy-updates/main amd64 libapr1 amd64>

1.7.0-8ubuntu0.22.04.1 [108 kB]

Get:2 <http://ru.archive.ubuntu.com/ubuntu/jammy-updates/main amd64 libaprutil1 amd64>

1.6.1-5ubuntu4.22.04.1 [92.6 kB]

Get:3 <http://ru.archive.ubuntu.com/ubuntu/jammy-updates/main amd64>

libaprutil1-dbd-sqlite3 amd64 1.6.1-5ubuntu4.22.04.1 [11.3 kB]

Get:4 <http://ru.archive.ubuntu.com/ubuntu/jammy-updates/main amd64 libaprutil1-ldap>

amd64 1.6.1-5ubuntu4.22.04.1 [9168 B]

Get:5 <http://ru.archive.ubuntu.com/ubuntu/jammy/main amd64 libjansson4 amd64>

2.13.1-1.1build3 [32.4 kB]

Get:6 <http://ru.archive.ubuntu.com/ubuntu/jammy/main amd64 liblua5.3-0 amd64>

5.3.6-1build1 [140 kB]

Get:7 <http://ru.archive.ubuntu.com/ubuntu/jammy-updates/main amd64 apache2-bin amd64>

2.4.52-1ubuntu4.3 [1345 kB]

Get:8 <http://ru.archive.ubuntu.com/ubuntu/jammy-updates/main amd64 apache2-data all>

2.4.52-1ubuntu4.3 [165 kB]

Get:9 <http://ru.archive.ubuntu.com/ubuntu/jammy-updates/main amd64 apache2-utils amd64>

2.4.52-1ubuntu4.3 [89.3 kB]

Fetchd 1992 kB in 1s (2185 kB/s)

debconf: delaying package configuration, since apt-utils is not installed

Selecting previously unselected package libapr1:amd64.

(Reading database ... 104056 files and directories currently installed.)

Preparing to unpack .../0-libapr1_1.7.0-8ubuntu0.22.04.1_amd64.deb ...

Unpacking libapr1:amd64 (1.7.0-8ubuntu0.22.04.1) ...

Selecting previously unselected package libaprutil1:amd64.

Preparing to unpack .../1-libaprutil1_1.6.1-5ubuntu4.22.04.1_amd64.deb ...

Unpacking libaprutil1:amd64 (1.6.1-5ubuntu4.22.04.1) ...

Selecting previously unselected package libaprutil1-dbd-sqlite3:amd64.

Preparing to unpack .../2-libaprutil1-dbd-sqlite3_1.6.1-5ubuntu4.22.04.1_amd64.deb ...

Unpacking libaprutil1-dbd-sqlite3:amd64 (1.6.1-5ubuntu4.22.04.1) ...

Selecting previously unselected package libaprutil1-ldap:amd64.

Preparing to unpack .../3-libaprutil1-ldap_1.6.1-5ubuntu4.22.04.1_amd64.deb ...

Unpacking libaprutil1-ldap:amd64 (1.6.1-5ubuntu4.22.04.1) ...

Selecting previously unselected package libjansson4:amd64.

Preparing to unpack .../4-libjansson4_2.13.1-1.1build3_amd64.deb ...

Unpacking libjansson4:amd64 (2.13.1-1.1build3) ...

Selecting previously unselected package liblua5.3-0:amd64.

Preparing to unpack .../5-liblua5.3-0_5.3.6-1build1_amd64.deb ...

Unpacking liblua5.3-0:amd64 (5.3.6-1build1) ...

Selecting previously unselected package apache2-bin.

Preparing to unpack .../6-apache2-bin_2.4.52-1ubuntu4.3_amd64.deb ...

Unpacking apache2-bin (2.4.52-1ubuntu4.3) ...

Selecting previously unselected package apache2-data.

Preparing to unpack .../7-apache2-data_2.4.52-1ubuntu4.3_all.deb ...

Unpacking apache2-data (2.4.52-1ubuntu4.3) ...

Selecting previously unselected package apache2-utils.
Preparing to unpack .../8-apache2-utils_2.4.52-1ubuntu4.3_amd64.deb ...
Unpacking apache2-utils (2.4.52-1ubuntu4.3) ...
Setting up libapr1:amd64 (1.7.0-8ubuntu0.22.04.1) ...
Setting up libjansson4:amd64 (2.13.1-1.1build3) ...
Setting up liblua5.3-0:amd64 (5.3.6-1build1) ...
Setting up apache2-data (2.4.52-1ubuntu4.3) ...
Setting up libaprutil1:amd64 (1.6.1-5ubuntu4.22.04.1) ...
Setting up libaprutil1-ldap:amd64 (1.6.1-5ubuntu4.22.04.1) ...
Setting up libaprutil1-dbd-sqlite3:amd64 (1.6.1-5ubuntu4.22.04.1) ...
Setting up apache2-utils (2.4.52-1ubuntu4.3) ...
Setting up apache2-bin (2.4.52-1ubuntu4.3) ...
Setting up apache2 (2.4.52-1ubuntu4.3) ...
Enabling module mpm_event.
Enabling module authz_core.
Enabling module authz_host.
Enabling module authn_core.
Enabling module auth_basic.
Enabling module access_compat.
Enabling module authn_file.
Enabling module authz_user.
Enabling module alias.
Enabling module dir.
Enabling module autoindex.
Enabling module env.
Enabling module mime.
Enabling module negotiation.
Enabling module setenvif.
Enabling module filter.
Enabling module deflate.
Enabling module status.
Enabling module reqtimeout.
Enabling conf charset.
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service →
/lib/systemd/system/apache2.service.
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service
→ /lib/systemd/system/apache-htcacheclean.service.
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...
needrestart is being skipped since dpkg has failed

machesnokov@ubuntu-home2:~\$ sudo systemctl status apache2

- apache2.service - The Apache HTTP Server
Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
Active: active (running) since Sat 2023-03-04 15:22:42 UTC; 6min ago

Docs: <https://httpd.apache.org/docs/2.4/>
Main PID: 3958 (apache2)
Tasks: 55 (limit: 2234)
Memory: 5.1M
CPU: 90ms
CGroup: /system.slice/apache2.service
├─3958 /usr/sbin/apache2 -k start
├─3960 /usr/sbin/apache2 -k start
└─3961 /usr/sbin/apache2 -k start

Mar 04 15:22:42 ubuntu-home2 systemd[1]: Starting The Apache HTTP Server...
Mar 04 15:22:42 ubuntu-home2 apachectl[3957]: AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using>
Mar 04 15:22:42 ubuntu-home2 systemd[1]: Started The Apache HTTP Server.
machesnokov@ubuntu-home2:~\$

5. Выложить историю команд в терминале ubuntu

Решение:

machesnokov@ubuntu-home2:~\$ history

```
1 ip a
2 exit
3 sudo su
4 id
5 sudo usermod -aG docker $USER
6 sudo $USER
7 sudo
8 sudo -u machesnokov
9 id
10 sudo su
11 id
12 sudo shutdown
13 id
14 mc
15 sudo apt install mc
16 sudo apt update
17 sudo apt upgrade
18 df -h
19 reboot
20 sudo reboot
21 sudo shutdown
22 mc
23 echo "dwd" > Dockerfile
24 mc
25 cat << EOF > mktemp
26 USE mysql;
```

```
27 FLUSH PRIVILEGES ;
28 GRANT ALL ON *.* TO 'root'@'%' identified by '$MYSQL_ROOT_PASSWORD' WITH
GRANT OPTION ;
29 GRANT ALL ON *.* TO 'root'@'localhost' identified by '$MYSQL_ROOT_PASSWORD'
WITH GRANT OPTION ;
30 SET PASSWORD FOR
'root'@'localhost'=PASSWORD('${MYSQL_ROOT_PASSWORD}');
31 DROP DATABASE IF EXISTS test ;
32 FLUSH PRIVILEGES ;
33 EOF
34 mc
35 sudo shutdown
36 ls -la
37 chmod 775 run_mariadb.sh
38 ls -la
39 cat Dockerfile
40 mc
41 mc
42 echo "ef" > run_mariadb.sh
43 mc
44 docker build -t mariadb-alpine .
45 docker logs mariadb-alpine
46 mc
47 docker build -t mariadb-alpine .
48 mc
49 docker build -t mariadb-alpine .
50 docker ps -a
51 docker rm d826924df0c0
52 docker images
53 docker rmi feb5d9fea6a5
54 docker builder prune
55 docker run --name alpine-madiadb -p 3306:3306 -v /var/lib/mysql:/var/lib/mysql -d
mariadb-alpine
56 docker ps -a
57 docker run --name my-phpmyadmin -d --link alpine-madiadb:db -p 8080:80
phpmyadmin
58 docker ps -a
59 ip a
60 docker exec -it alpine-madiadb sh
61 ls -la
62 cat Dockerfile
63 cat run_mariadb.sh
64 mc
65 cat run_mariadb.sh
66 docker stop alpine-madiadb
67 docker stop my-phpmyadmin
68 sudo shutdown
69 ip a
```

```
70 exit
71 sudo apt install docker-compose
72 docker version
73 docker swarm join --token
SWMTKN-1-1i6zqpxblxdk20f1f8rm0537vwnjp88xqyk12z5jlxhtic0-c5f5944c7v80ulwvqignu
o6ke 192.168.0.83:2377
74 docker node ls
75 df -h
76 docker ps -a
77 docker network ls
78 docker network create --driver overlay --subnet 4.5.6.0/24 test-network --attachable
79 docker network ls
80 docker ps -a
81 docker network ls
82 docker run -d --ip 4.5.6.7 --net test-network --name container-2 busybox sleep 3600
83 docker run -d --ip 4.5.6.8 --net test-network --name container-2 busybox sleep 3600
84 docker network ls
85 docker node ls
86 docker network ls
87 docker swarm
88 docker swarm leave
89 docker network ls
90 docker swarm leave
91 docker network ls
92 docker swarm join --token
SWMTKN-1-1i6zqpxblxdk20f1f8rm0537vwnjp88xqyk12z5jlxhtic0-c5f5944c7v80ulwvqignu
o6ke 192.168.0.83:2377
93 docker network ls
94 docker run -d --ip 4.5.6.8 --net test-network --name container-2 busybox sleep 3600
95 docker rm container-2
96 docker run -d --ip 4.5.6.8 --net test-network --name container-2 busybox sleep 3600
97 docker ps -a
98 docker exec -it container-2 sh
99 ip a
100 docker exec -it container-2 sh
101 docker stop container-2
102 docker rm container-2
103 docker images
104 docker rmi 66ba00ad3de8
105 docker network ls
106 docker ps -a
107 sudo shutdown
108 df -h
109 docker network ls
110 docker ps -a
111 docker swarm leave
112 docker node
113 docker node ls
```

```
114 docker swarm leave --force
115 docker swarm join --token
SWMTKN-1-0eso0tx1jzy9nnm6ntljsle4f2olahjk3142g8xyr9cvavuf9f-b1v5zy493ea7iwnpeirqq
zjy7 192.168.88.96:2377
116 docker swarm leave
117 docker node ls
118 df -h
119 docker swarm init
120 docker node ls
121 cat > docker-compose.web.db.yml
122 mc
123 mkdir web-db
124 mv docker-compose.web.db.yml ./web-db/docker-compose.web.db.yml
125 vi ./web-db/docker-compose.web.db.yml
126 sudo apt install vi
127 vi ./web-db/docker-compose.web.db.yml
128 vi docker-compose.web.db.yml
129 sudo apt update
130 sudo apt upgrade
131 sudo apt install vim
132 sudo apt install vi
133 sudo apt install vim
134 ls -la ./web-db/
135 vi ./web-db/docker-compose.web.db.yml
136 docker node ls
137 df -h
138 docker node update --label-add env=prod ubuntu-home
139 docker node update --label-add env=dev ubuntu-home2
140 docker node inspect ubuntu-home
141 docker node inspect ubuntu-home2
142 ls -la
143 mv -R web-db web-db-prod
144 mv web-db web-db-prod
145 ls -la
146 mv ./web-db-prod/docker-compose.web.db.yml
./web-db-prod/docker-compose.web.db.prod.yml
147 vi ./web-db-prod/docker-compose.web.db.prod.yml
148 docker stack deploy --compose-file ./web-db-prod/docker-compose.web.db.prod.yml
prodwebdb
149 vi ./web-db-prod/docker-compose.web.db.prod.yml
150 docker stack deploy --compose-file ./web-db-prod/docker-compose.web.db.prod.yml
prodwebdb
151 vi ./web-db-prod/docker-compose.web.db.prod.yml
152 docker stack deploy --compose-file ./web-db-prod/docker-compose.web.db.prod.yml
prodwebdb
153 vi ./web-db-prod/docker-compose.web.db.prod.yml
154 docker stack deploy --compose-file ./web-db-prod/docker-compose.web.db.prod.yml
prodwebdb
```

```
155 vi ./web-db-prod/docker-compose.web.db.prod.yml
156 docker stack deploy --compose-file ./web-db-prod/docker-compose.web.db.prod.yml
prodwebdb
157 vi ./web-db-prod/docker-compose.web.db.prod.yml
158 docker stack deploy --compose-file ./web-db-prod/docker-compose.web.db.prod.yml
prodwebdb
159 docker node ls
160 docker service ps
161 docker service ps prodwebdb_adminer
162 docker service ps prodwebdb_db
163 docker ps -a
164 docker service ps prodwebdb_db
165 docker service ps prodwebdb_adminer
166 vi ./web-db-prod/docker-compose.web.db.prod.yml
167 docker service down prodwebdb_db
168 docker service ls
169 docker service rm lsubqiubaelx
170 docker service rm c2eahme9sc6t
171 docker service ls
172 docker service lsdf -h
173 df -h
174 vi ./web-db-prod/docker-compose.web.db.prod.yml
175 docker network ls
176 vi ./web-db-prod/docker-compose.web.db.prod.yml
177 docker stack deploy --compose-file ./web-db-prod/docker-compose.web.db.prod.yml
prodwebdb
178 docker ps -a
179 docker network ls
180 docker service ls
181 ip a
182 Docker assigns the service a virtual IP (VIP) that acts as the front end for clients to
reach the service on a network. Docker routes requests between the client and available
worker nodes for the service, without client knowledge of how many nodes are participating
in the service or their IP addresses or ports. (This is the default.)
183 docker service ls
184 ip a
185 docker service ls
186 docker exec -it 82gnpuwa2vm2 sh
187 docker service
188 docker service inspect 82gnpuwa2vm2
189 docker service ls
190 docker service inspect iepxo30nhv0p
191 docker service
192 docker service ls
193 docker service rm prodwebdb_adminer
194 docker service rm prodwebdb_db
195 docker service ls
196 sudo shutdown
```



```
197 ls -la
198 mv docker-compose.web.db.prod.yml docker-compose.web.db.dev.yml
199 docker node ls
200 docker ps -a
201 docker service ls
202 docker network ls
203 docker network
204 rm i46mjjendvwi
205 docker network rm i46mjjendvwi
206 docker network ls
207 docker network create --driver overlay --subnet 4.5.6.0/24 web-network
208 docker network ls
209 docker network create --driver overlay --subnet 4.5.6.0/24 web-network
210 docker service create --name mariadb --network web-network --env
MYSQL_ROOT_PASSWORD: test123 --constraint node.labels.env==prod --replicas 2
mariadb:10.10.2
211 docker service create --name mariadb --network web-network --env
MYSQL_ROOT_PASSWORD=test123 --constraint node.labels.env==prod --replicas 2
mariadb:10.10.2
212 docker node ls
213 docker ps -a
214 docker service ls
215 docker service rm mariadb
216 docker service ls
217 docker service create --name mariadb --network web-network --env
MYSQL_ROOT_PASSWORD=test123 --constraint node.labels.env==prod --replicas 2
mariadb:10.10.2
218 docker service create --name adminer --network web-network -p 6080:8080
--constraint node.labels.env==prod --replicas 2 adminer:4.8.1
219 docker service ls
220 ip a
221 docker ps -a
222 docker network create --driver overlay --subnet 4.5.7.0/24 web-dev-network
223 docker network ls
224 docker service create --name mariadb --network web-dev-network --env
MYSQL_ROOT_PASSWORD=test1234 --constraint node.labels.env==prod --replicas 2
mariadb:10.10.2
225 docker service create --name mariadb-dev --network web-dev-network --env
MYSQL_ROOT_PASSWORD=test1234 --constraint node.labels.env==prod --replicas 2
mariadb:10.10.2
226 docker service ls
227 docker service rm mariadb-dev
228 docker service ls
229 docker service create --name mariadb-dev --network web-dev-network --env
MYSQL_ROOT_PASSWORD=test1234 --constraint node.labels.env==dev --replicas 2
mariadb:10.10.2
230 docker service create --name adminer-dev --network web-dev-network -p 6081:8080
--constraint node.labels.env==dev --replicas 2 adminer:4.8.1
```

```
231 docker service ls
232 docker ps -a
233 docker service ls
234 ba -p
235 df -h
236 docker service
237 docker service ps
238 docker service ps adminer
239 docker service ps adminer-dev
240 docker service ps mariadb
241 docker service ps mariadb-dev
242 ьс
243 mc
244 docker service ps
245 docker service ps --help
246 docker service --help
247 docker swarm --help
248 docker service ls
249 docker service
250 docker service rm mariadb-dev
251 mariadb
252 docker service rm mariadb
253 docker service rm adminer-dev
254 docker service rm adminer
255 docker service ls
256 mc
257 ls -la
258 ls -al ./web-db-prod/
259 docker stack
260 docker stack ls
261 docker stack ps
262 docker stack services
263 docker stack ls
264 docker node ls
265 docker stack deploy -c ./web-db-prod/docker-compose.web.db.prod.yml web-prod
266 docker network ls
267 docker stack ls
268 docker stack
269 docker stack ps
270 docker stack ps web-prod
271 docker stack rm web-prod
272 docker stack ls
273 mc
274 ls -la
275 vi docker-compose.web.db.dev.yml
276 cp docker-compose.web.db.dev.yml docker-compose.web.db.lab.yml
277 vi docker-compose.web.db.lab.yml
278 docker node update --label-add env=lab ubuntu-hom
```

```
279 docker node update --label-add env=lab ubuntu-home
280 docker node
281 docker node inspect ubuntu-home
282 docker node inspect ubuntu-home2
283 docker stack deploy -c ./docker-compose.web.dev.yml web-dev
284 ls -la
285 docker stack deploy -c ./docker-compose.web.db.dev.yml web-dev
286 docker stack
287 docker stack ды
288 docker stack ls
289 docker stack ps web-dev
290 docker ps -a
291 vi docker-compose.web.db.lab.yml
292 docker stack deploy -c ./docker-compose.web.db.lab.yml web-lab
293 docker stack ls
294 docker stack ps web-lab
295 docker stack
296 docker stack config
297 docker stack config --help
298 docker stack services
299 docker stack services web-lab
300 docker stack services web-dev
301 docker stack
302 docker stack ls
303 docker stack rm web-lab
304 docker stack rm web-dev
305 docker ps -a
306 df -h
307 sudo shutdown
308 ls -la
309 rm Домашние
310 rm Домашние_животные
311 ls -la
312 exit
313 cat > Домашние животные
314 cat > Домашние_животные
315 clear
316 cat > Home_animals
317 cat > Pack_animals
318 cat Home_animals >> Pack_animals
319 cat Pack_animals
320 cat Pack_animals > Friends_man
321 cat Friends_man
322 mv Pack_animals Friends_man
323 cat Friends_man
324 mkdir itog
325 mv Friends_man ./itog/
326 ls -la ./itog/
```

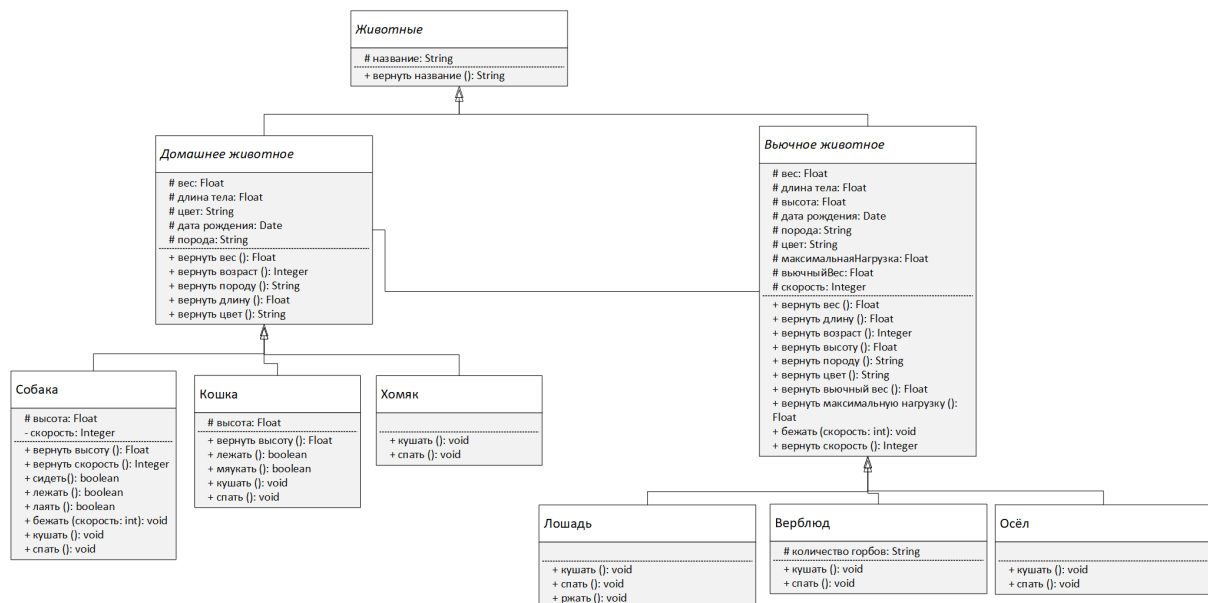
```
327 sudo apt-key adv --keyserver pgp.mit.edu --recv-keys 3A79BD29
328 man apt-key
329 sudo apt-key adv --keyserver pgp.mit.edu --recv-keys 3A79BD29
330 wget https://dev.mysql.com/get/mysql-apt-config_0.8.24-1_all.deb
331 sudo dpkg -i mysql-apt-config_0.8.24-1_all.deb
332 sudo apt-key adv --keyserver pgp.mit.edu --recv-keys 3A79BD29
333 ls -la /etc/apt/sources.list.d/
334 cat mysql.list
335 ls -la /etc/apt/sources.list.d/mysql.list
336 ls -la /etc/apt/sources.list.d/
337 cat /etc/apt/sources.list.d/mysql.list
338 ls -la /etc/apt/keyrings/
339 sudo apt update
340 sudo apt upgrade
341 sudo shutdown
342 sudo apt install mysql-server
343 systemctl status mysql
344 systemctl stop mysql
345 sudo systemctl status mysql
346 sudo systemctl stop mysql
347 sudo systemctl start mysql
348 sudo journalctl -xeu mysql.service
349 sudo apt remove mysql-server
350 sudo apt --help
351 sudo apt-get --help
352 sudo apt-get purge mysql-server
353 sudo apt --help
354 sudo apt autoremove
355 sudo mc
356 sudo apt autoremove
357 sudo apt --help
358 systemctl stop mysql
359 sudo systemctl status mysql
360 sudo mc
361 sudo reboot
362 sudo systemctl status mysql
363 sudo apt install mysql-server
364 sudo systemctl status mysql
365 sudo systemctl start mysql
366 sudo systemctl status mysql
367 sudo apt-get install -y dpkg
368 sudo dpkg-query -l
369 sudo dpkg -i apache2
370 sudo dpkg --get-selections
371 wget
http://security.ubuntu.com/ubuntu/pool/main/a/apache2/apache2_2.4.41-4ubuntu3.13_amd6
4.deb
372 sudo dpkg -i apache2_2.4.41-4ubuntu3.13_amd64.deb
```

```

373 sudo dpkg -s apache2
374 sudo apt purge apache2
375 sudo apt autoremove
376 sudo dpkg -r apache2
377 apt download apache2
378 ls -la
379 rm apache2_2.4.41-4ubuntu3.13_amd64.deb
380 sudo dpkg -i apache2_2.4.52-1ubuntu4.3_amd64.deb
381 sudo apt -f install
382 sudo dpkg --help
383 sudo apt --help
384 sudo systemctl status apache
385 sudo systemctl status apache2
386 history
machesnokov@ubuntu-home2:~$

```

6. Нарисовать диаграмму, в которой есть класс родительский класс, домашние животные и выючные животные, в составы которых в случае домашних животных войдут классы: собаки, кошки, хомяки, а в класс выючные животные войдут: Лошади, верблюды и ослы).



7. В подключенном MySQL репозитории создать базу данных “Друзья человека”.

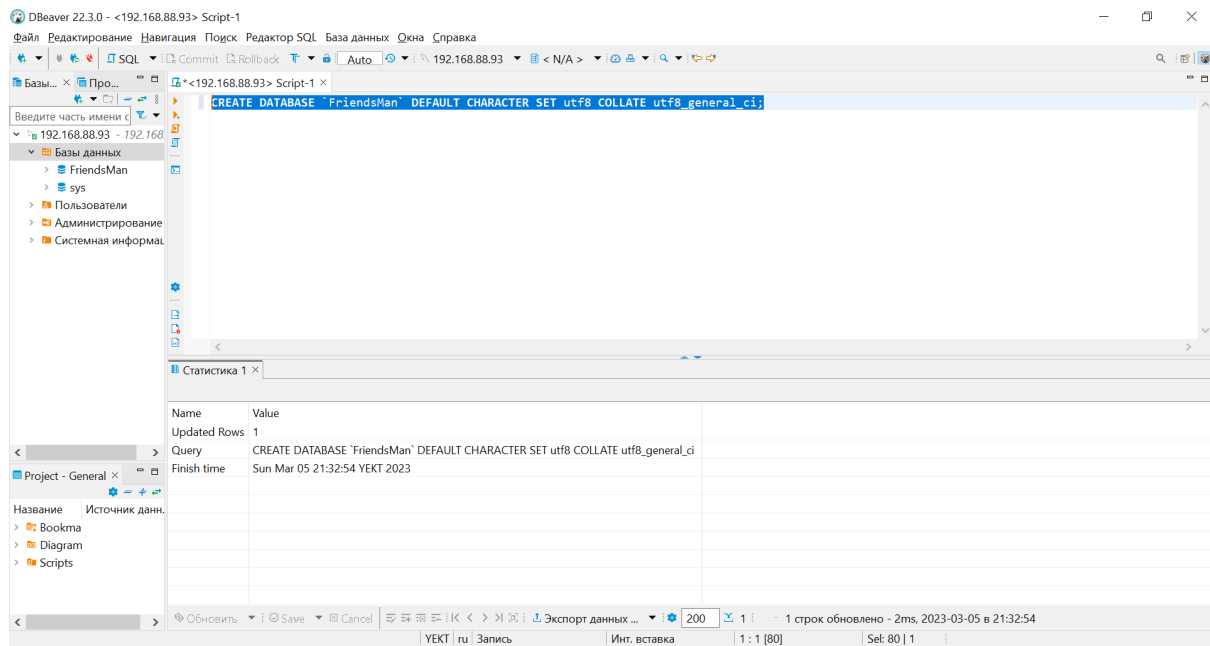
Решение:

Создадим базу данных FriendsMan (“Друзья человека”).

```

CREATE DATABASE `FriendsMan` DEFAULT CHARACTER SET utf8 COLLATE
utf8_general_ci;

```



8. Создать таблицы с иерархией из диаграммы в БД

Решение:

USE FriendsMan;

--

```
CREATE TABLE animalsDogs
(id INT PRIMARY KEY AUTO_INCREMENT,
-- Название
name VARCHAR(100) NOT NULL,
-- Порода
breed VARCHAR(100) NOT NULL,
-- дата рождения
dateBirth DATE NOT NULL,
-- вес
weight DECIMAL(10,2) NOT NULL,
-- цвет
color VARCHAR(100) NOT NULL,
-- длина тела
bodyLength DECIMAL(10,2) NOT NULL,
-- высота
height DECIMAL(10,2),
-- скорость
speed INT
);
```

CREATE TABLE animalsCats

```
(id INT PRIMARY KEY AUTO_INCREMENT,  
-- Название  
name VARCHAR(100) NOT NULL,  
-- Порода  
bread VARCHAR(100) NOT NULL,  
-- дата рождения  
dateBirth DATE NOT NULL,  
-- вес  
weight DECIMAL(10,2) NOT NULL,  
-- цвет  
color VARCHAR(100) NOT NULL,  
-- длина тела  
bodyLength DECIMAL(10,2) NOT NULL,  
-- высота  
height DECIMAL(10,2)  
);
```

```
CREATE TABLE animalsHamsters  
(id INT PRIMARY KEY AUTO_INCREMENT,  
-- Название  
name VARCHAR(100) NOT NULL,  
-- Порода  
bread VARCHAR(100) NOT NULL,  
-- дата рождения  
dateBirth DATE NOT NULL,  
-- вес  
weight DECIMAL(10,2) NOT NULL,  
-- цвет  
color VARCHAR(100) NOT NULL,  
-- длина тела  
bodyLength DECIMAL(10,2) NOT NULL  
);
```

```
-- действия животных  
CREATE TABLE actions  
(id INT PRIMARY KEY AUTO_INCREMENT,  
-- действие  
actions VARCHAR(100) NOT NULL,  
-- параметры действия  
parametrs VARCHAR(100),  
-- имя таблицы хранящая животного  
tableAnimals VARCHAR(100) NOT NULL  
);
```

```
-- вьючные животные  
CREATE TABLE packAnimalsCamels  
(id INT PRIMARY KEY AUTO_INCREMENT,  
-- Название
```

```
name VARCHAR(100) NOT NULL,  
-- Порода  
bread VARCHAR(100) NOT NULL,  
-- дата рождения  
dateBirth DATE NOT NULL,  
-- вес  
weight DECIMAL(10,2) NOT NULL,  
-- цвет  
color VARCHAR(100) NOT NULL,  
-- длина тела  
bodyLength DECIMAL(10,2) NOT NULL,  
-- высота  
height DECIMAL(10,2),  
-- скорость  
speed INT,  
-- вьючный вес  
packWeight DECIMAL(10,2) NOT NULL,  
-- максимальная нагрузка  
maximumLoad DECIMAL(10,2) NOT NULL,  
-- количество горбов  
numberHumps INT  
);
```

```
-- вьючные животные  
CREATE TABLE packAnimalsHorses  
(id INT PRIMARY KEY AUTO_INCREMENT,  
-- Название  
name VARCHAR(100) NOT NULL,  
-- Порода  
bread VARCHAR(100) NOT NULL,  
-- дата рождения  
dateBirth DATE NOT NULL,  
-- вес  
weight DECIMAL(10,2) NOT NULL,  
-- цвет  
color VARCHAR(100) NOT NULL,  
-- длина тела  
bodyLength DECIMAL(10,2) NOT NULL,  
-- высота  
height DECIMAL(10,2),  
-- скорость  
speed INT,  
-- вьючный вес  
packWeight DECIMAL(10,2) NOT NULL,  
-- максимальная нагрузка  
maximumLoad DECIMAL(10,2) NOT NULL  
);
```

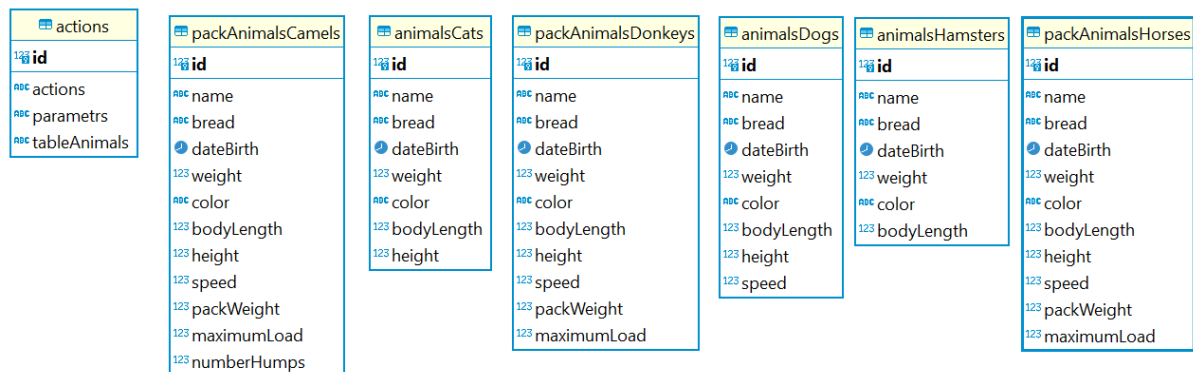


```

-- вьючные животные
CREATE TABLE packAnimalsDonkeys
(id INT PRIMARY KEY AUTO_INCREMENT,
-- Название
name VARCHAR(100) NOT NULL,
-- Порода
bread VARCHAR(100) NOT NULL,
-- дата рождения
dateBirth DATE NOT NULL,
-- вес
weight DECIMAL(10,2) NOT NULL,
-- цвет
color VARCHAR(100) NOT NULL,
-- длина тела
bodyLength DECIMAL(10,2) NOT NULL,
-- высота
height DECIMAL(10,2),
-- скорость
speed INT,
-- вьючный вес
packWeight DECIMAL(10,2) NOT NULL,
-- максимальная нагрузка
maximumLoad DECIMAL(10,2) NOT NULL
);

```

Диаграмма созданной БД.



9. Заполнить низкоуровневые таблицы именами(животных), командами которые они выполняют и датами рождения

Решение:

USE FriendsMan;

```

INSERT INTO packAnimalsCamels(name, bread, dateBirth, weight, color, bodyLength,
height, speed, packWeight, maximumLoad, numberHumps)

```

```

VALUES('Орлик', 'Африканский', '2015-06-11', 250.5, 'черный', 3.2,
1.8, 9, 150.5, 160.0, 2);
INSERT INTO packAnimalsCamels(name, bread, dateBirth, weight, color, bodyLength,
height, speed, packWeight, maximumLoad, numberHumps)
VALUES('Казбек', 'Азиатский', '2016-04-01', 234.0, 'серый', 3.0, 1.6,
11, 145.0, 150.0, 2);
INSERT INTO packAnimalsCamels(name, bread, dateBirth, weight, color, bodyLength,
height, speed, packWeight, maximumLoad, numberHumps)
VALUES('Шах', 'Азиатский', '2019-09-22', 225.0, 'коричневый', 3.1,
1.55, 12, 142.0, 150.0, 1);
INSERT INTO actions(actions, params, tableAnimals)
VALUES('sleep', NULL, 'packAnimalsCamels');
INSERT INTO actions(actions, params, tableAnimals)
VALUES('eat', NULL, 'packAnimalsCamels');

INSERT INTO packAnimalsHorses(name, bread, dateBirth, weight, color, bodyLength,
height, speed, packWeight, maximumLoad)
VALUES('Росак', 'Русская', '2016-03-02', 185.0, 'пепельный', 2.5,
1.65, 30, 90.0, 110.0);
INSERT INTO packAnimalsHorses(name, bread, dateBirth, weight, color, bodyLength,
height, speed, packWeight, maximumLoad)
VALUES('Граф', 'Проживальского', '2015-11-12', 155.0,
'коричневый', 2.5, 1.65, 25, 95.0, 120.0);
INSERT INTO packAnimalsHorses(name, bread, dateBirth, weight, color, bodyLength,
height, speed, packWeight, maximumLoad)
VALUES('Мария', 'Тяжеловес', '2017-10-16', 285.0, 'коричневый',
3.1, 1.75, 20, 150.0, 180.0);
INSERT INTO actions(actions, params, tableAnimals)
VALUES('sleep', NULL, 'packAnimalsHorses');
INSERT INTO actions(actions, params, tableAnimals)
VALUES('eat', NULL, 'packAnimalsHorses');
INSERT INTO actions(actions, params, tableAnimals)
VALUES('neigh', NULL, 'packAnimalsHorses');

INSERT INTO packAnimalsDonkeys(name, bread, dateBirth, weight, color, bodyLength,
height, speed, packWeight, maximumLoad)
VALUES('Ослик', 'Обыкновенный', '2022-10-16', 85.0, 'серый', 1.9,
1.0, 10, 50.0, 80.0);
INSERT INTO packAnimalsDonkeys(name, bread, dateBirth, weight, color, bodyLength,
height, speed, packWeight, maximumLoad)
VALUES('Паб', 'Обыкновенный', '2021-06-06', 80.0, 'серый', 1.85,
1.05, 10, 50.0, 80.0);
INSERT INTO packAnimalsDonkeys(name, bread, dateBirth, weight, color, bodyLength,
height, speed, packWeight, maximumLoad)
VALUES('Мул', 'Американский', '2019-03-13', 75.0, 'серый', 1.9, 0.95,
11, 45.0, 70.0);
INSERT INTO actions(actions, params, tableAnimals)
VALUES('sleep', NULL, 'packAnimalsDonkeys');

```

```

INSERT INTO actions(actions, params, tableAnimals)
VALUES('eat', NULL, 'packAnimalsDonkeys');

INSERT INTO animalsDogs(name, breed, dateBirth, weight, color, bodyLength, height,
speed)
VALUES('Тузик', 'Дог', '2020-01-12', 12.5, 'черный', 1.2, 0.6, 15);
INSERT INTO animalsDogs(name, breed, dateBirth, weight, color, bodyLength, height,
speed)
VALUES('Палкан', 'Овчарка', '2018-05-09', 8.4, 'серый', 1.0, 0.4, 19);
INSERT INTO animalsDogs(name, breed, dateBirth, weight, color, bodyLength, height,
speed)
VALUES('Рыжик', 'Дворняга', '2022-07-25', 3.7, 'белый', 0.6, 0.25,
10);
INSERT INTO actions(actions, params, tableAnimals)
VALUES('bark', NULL, 'animalsDogs');
INSERT INTO actions(actions, params, tableAnimals)
VALUES('run_away', 'speed', 'animalsDogs');
INSERT INTO actions(actions, params, tableAnimals)
VALUES('sleep', NULL, 'animalsDogs');
INSERT INTO actions(actions, params, tableAnimals)
VALUES('eat', NULL, 'animalsDogs');

INSERT INTO animalsCats(name, breed, dateBirth, weight, color, bodyLength, height)
VALUES('Рудик', 'Сфинкс', '2020-04-19', 3.5, 'бежевый', 0.4, 0.25);
INSERT INTO animalsCats(name, breed, dateBirth, weight, color, bodyLength, height)
VALUES('Лиза', 'Беспородистая', '2022-11-09', 3.2, 'черно-белый',
0.35, 0.2);
INSERT INTO animalsCats(name, breed, dateBirth, weight, color, bodyLength, height)
VALUES('Маруся', 'Сибирская', '2017-10-23', 4.0, 'дымчатый', 0.45,
0.3);
INSERT INTO actions(actions, params, tableAnimals)
VALUES('mew', NULL, 'animalsCats');
INSERT INTO actions(actions, params, tableAnimals)
VALUES('sleep', NULL, 'animalsCats');
INSERT INTO actions(actions, params, tableAnimals)
VALUES('eat', NULL, 'animalsCats');

INSERT INTO animalsHamsters(name, breed, dateBirth, weight, color, bodyLength)
VALUES('Пухлик', 'Степной', '2022-10-11', 0.3, 'дымчатый', 0.12);
INSERT INTO animalsHamsters(name, breed, dateBirth, weight, color, bodyLength)
VALUES('Хома', 'Азиатский', '2023-01-18', 0.2, 'золотистый', 0.15);
INSERT INTO animalsHamsters(name, breed, dateBirth, weight, color, bodyLength)
VALUES('Тиша', 'Степной', '2021-04-22', 0.3, 'черный', 0.13);
INSERT INTO actions(actions, params, tableAnimals)
VALUES('sleep', NULL, 'animalsHamsters');
INSERT INTO actions(actions, params, tableAnimals)
VALUES('eat', NULL, 'animalsHamsters');

```

actions 1 ×

SELECT * FROM actions Введите SQL выражение чтобы отфильтр

	id	actions	parametrs	tableAnimals
1	1	bark	[NULL]	animalsDogs
2	2	run_away	speed	animalsDogs
3	3	sleep	[NULL]	animalsDogs
4	4	eat	[NULL]	animalsDogs
5	5	mew	[NULL]	animalsCats
6	6	sleep	[NULL]	animalsCats
7	7	eat	[NULL]	animalsCats
8	8	sleep	[NULL]	animalsHamsters
9	9	eat	[NULL]	animalsHamsters
10	10	sleep	[NULL]	packAnimalsCamels
11	11	eat	[NULL]	packAnimalsCamels
12	12	sleep	[NULL]	packAnimalsHorses
13	13	eat	[NULL]	packAnimalsHorses
14	14	neigh	[NULL]	packAnimalsHorses
15	15	sleep	[NULL]	packAnimalsDonkeys
16	16	eat	[NULL]	packAnimalsDonkeys

10. Удалив из таблицы верблюдов, т.к. верблюдов решили перевезти в другой питомник на зимовку.

Решение:

```
USE FriendsMan;
DELETE FROM packAnimalsCamels;
```

Объединить таблицы лошади, и ослы в одну таблицу.

Решение:

```
USE FriendsMan;
```

```
(SELECT * FROM packAnimalsHorses) UNION (SELECT * FROM packAnimalsDonkeys);
```

Можно вставить данные одной таблицы ослов в таблицу лошадей:

```
INSERT INTO packAnimalsHorses(name, bread, dateBirth, weight, color, bodyLength,
height, speed, packWeight, maximumLoad)
SELECT name, bread, dateBirth, weight, color, bodyLength, height, speed, packWeight,
maximumLoad FROM packAnimalsDonkeys;
```

11. Создать новую таблицу “молодые животные” в которую попадут все животные старше 1 года, но младше 3 лет и в отдельном столбце с точностью до месяца подсчитать возраст животных в новой таблице.

Решение:

```
USE FriendsMan;
CREATE TABLE youngAnimals
(id INT PRIMARY KEY AUTO_INCREMENT,
name VARCHAR(100) NOT NULL,
bread VARCHAR(100) NOT NULL,
dateBirth DATE NOT NULL,
weight DECIMAL(10,2) NOT NULL,
color VARCHAR(100) NOT NULL,
bodyLength DECIMAL(10,2) NOT NULL,
height DECIMAL(10,2),
speed INT,
packWeight DECIMAL(10,2),
maximumLoad DECIMAL(10,2),
numberHumps INT,
age_month INT
);
```

```
INSERT INTO youngAnimals(name, bread, dateBirth, weight, color, bodyLength, height,
speed, packWeight, maximumLoad, numberHumps, age_month)
SELECT name, bread, dateBirth, weight, color, bodyLength, height, speed, packWeight,
maximumLoad, numberHumps, (TIMESTAMPDIFF(MONTH, t.dateBirth, CURDATE())) as
age_month FROM packAnimalsCamels as t
WHERE 1 < TIMESTAMPDIFF(YEAR, t.dateBirth, CURDATE()) AND
TIMESTAMPDIFF(YEAR, t.dateBirth, CURDATE()) < 3;
```

```
INSERT INTO youngAnimals(name, bread, dateBirth, weight, color, bodyLength, height,
speed, packWeight, maximumLoad, age_month)
SELECT name, bread, dateBirth, weight, color, bodyLength, height, speed, packWeight,
maximumLoad, (TIMESTAMPDIFF(MONTH, t.dateBirth, CURDATE())) as age_month FROM
packAnimalsDonkeys as t
```

```
WHERE 1 < TIMESTAMPDIFF(YEAR, t.dateBirth, CURDATE()) AND  
TIMESTAMPDIFF(YEAR, t.dateBirth, CURDATE()) < 3;
```

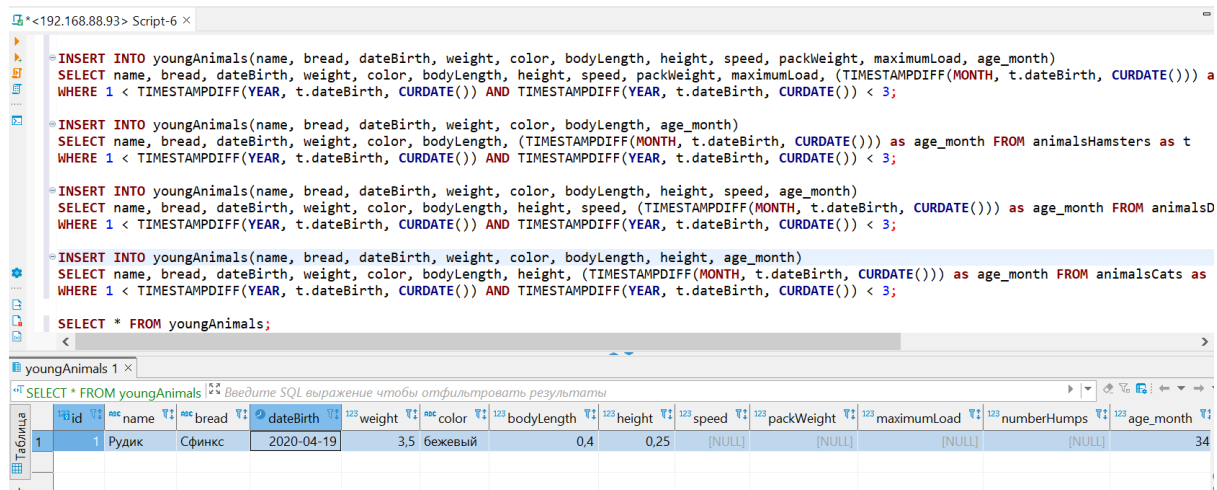
```
INSERT INTO youngAnimals(name, bread, dateBirth, weight, color, bodyLength, height,  
speed, packWeight, maximumLoad, age_month)  
SELECT name, bread, dateBirth, weight, color, bodyLength, height, speed, packWeight,  
maximumLoad, (TIMESTAMPDIFF(MONTH, t.dateBirth, CURDATE())) as age_month FROM  
packAnimalsHorses as t  
WHERE 1 < TIMESTAMPDIFF(YEAR, t.dateBirth, CURDATE()) AND  
TIMESTAMPDIFF(YEAR, t.dateBirth, CURDATE()) < 3;
```

```
INSERT INTO youngAnimals(name, bread, dateBirth, weight, color, bodyLength,  
age_month)  
SELECT name, bread, dateBirth, weight, color, bodyLength, (TIMESTAMPDIFF(MONTH,  
t.dateBirth, CURDATE())) as age_month FROM animalsHamsters as t  
WHERE 1 < TIMESTAMPDIFF(YEAR, t.dateBirth, CURDATE()) AND  
TIMESTAMPDIFF(YEAR, t.dateBirth, CURDATE()) < 3;
```

```
INSERT INTO youngAnimals(name, bread, dateBirth, weight, color, bodyLength, height,  
speed, age_month)  
SELECT name, bread, dateBirth, weight, color, bodyLength, height, speed,  
(TIMESTAMPDIFF(MONTH, t.dateBirth, CURDATE())) as age_month FROM animalsDogs  
as t  
WHERE 1 < TIMESTAMPDIFF(YEAR, t.dateBirth, CURDATE()) AND  
TIMESTAMPDIFF(YEAR, t.dateBirth, CURDATE()) < 3;
```

```
INSERT INTO youngAnimals(name, bread, dateBirth, weight, color, bodyLength, height,  
age_month)  
SELECT name, bread, dateBirth, weight, color, bodyLength, height,  
(TIMESTAMPDIFF(MONTH, t.dateBirth, CURDATE())) as age_month FROM animalsCats as  
t  
WHERE 1 < TIMESTAMPDIFF(YEAR, t.dateBirth, CURDATE()) AND  
TIMESTAMPDIFF(YEAR, t.dateBirth, CURDATE()) < 3;
```

```
SELECT * FROM youngAnimals;
```



12. Объединить все таблицы в одну, при этом сохраняя поля, указывающие на прошлую принадлежность к старым таблицам.

Решение:

USE FriendsMan;

```

SELECT t3.*, d1.id AS packAnimalsDonkeys_id, d1.name AS packAnimalsDonkeys_name,
d1.bread AS packAnimalsDonkeys_bread, d1.dateBirth AS packAnimalsDonkeys_dateBirth,
d1.weight AS packAnimalsDonkeys_weight, d1.color AS packAnimalsDonkeys_color,
d1.bodyLength AS packAnimalsDonkeys_bodyLength, d1.height AS
packAnimalsDonkeys_height,
d1.speed AS packAnimalsDonkeys_speed, d1.packWeight AS
packAnimalsDonkeys_packWeight, d1.maximumLoad AS
packAnimalsDonkeys_maximumLoad
FROM (SELECT t2.*, h1.id AS packAnimalsHorses_id, h1.name AS
packAnimalsHorses_name, h1.bread AS packAnimalsHorses_bread, h1.dateBirth AS
packAnimalsHorses_dateBirth,
h1.weight AS packAnimalsHorses_weight, h1.color AS packAnimalsHorses_color,
h1.bodyLength AS packAnimalsHorses_bodyLength, h1.height AS
packAnimalsHorses_height,
h1.speed AS packAnimalsHorses_speed, h1.packWeight AS
packAnimalsHorses_packWeight, h1.maximumLoad AS packAnimalsHorses_maximumLoad
FROM (SELECT t1.*, c1.id AS packAnimalsCamels_id, c1.name AS
packAnimalsCamels_name, c1.bread AS packAnimalsCamels_bread, c1.dateBirth AS
packAnimalsCamels_dateBirth,
c1.weight AS packAnimalsCamels_weight, c1.color AS packAnimalsCamels_color,
c1.bodyLength AS packAnimalsCamels_bodyLength, c1.height AS
packAnimalsCamels_height,
c1.speed AS packAnimalsCamels_speed, c1.packWeight AS
packAnimalsCamels_packWeight, c1.maximumLoad AS
packAnimalsCamels_maximumLoad,
c1.numberHumps AS packAnimalsCamels_numberHumps

```

```

FROM (SELECT t.*, h.id AS animalsHamsters_id, h.name AS animalsHamsters_name,
h.bread AS animalsHamsters_bread, h.dateBirth AS animalsHamsters_dateBirth,
h.weight AS animalsHamsters_weight, h.color AS animalsHamsters_color, h.bodyLength AS
animalsHamsters_bodyLength FROM (SELECT c.id AS animalsCats_id, c.name AS
animalsCats_name, c.bread AS animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS
animalsCats_bodyLength, c.height AS animalsCats_height,
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,
d.dateBirth AS animalsDogs_dateBirth,
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS
animalsDogs_bodyLength, d.height AS animalsDogs_height,
d.speed AS animalsDogs_speed
FROM animalsCats AS c LEFT JOIN animalsDogs AS d ON 0
UNION
SELECT c.id AS animalsCats_id, c.name AS animalsCats_name, c.bread AS
animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS
animalsCats_bodyLength, c.height AS animalsCats_height,
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,
d.dateBirth AS animalsDogs_dateBirth,
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS
animalsDogs_bodyLength, d.height AS animalsDogs_height,
d.speed AS animalsDogs_speed
FROM animalsCats AS c RIGHT JOIN animalsDogs AS d ON 0) AS t LEFT JOIN
animalsHamsters AS h ON 0
UNION
SELECT t.*, h.id AS animalsHamsters_id, h.name AS animalsHamsters_name, h.bread AS
animalsHamsters_bread, h.dateBirth AS animalsHamsters_dateBirth,
h.weight AS animalsHamsters_weight, h.color AS animalsHamsters_color, h.bodyLength AS
animalsHamsters_bodyLength FROM (SELECT c.id AS animalsCats_id, c.name AS
animalsCats_name, c.bread AS animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS
animalsCats_bodyLength, c.height AS animalsCats_height,
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,
d.dateBirth AS animalsDogs_dateBirth,
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS
animalsDogs_bodyLength, d.height AS animalsDogs_height,
d.speed AS animalsDogs_speed
FROM animalsCats AS c LEFT JOIN animalsDogs AS d ON 0
UNION
SELECT c.id AS animalsCats_id, c.name AS animalsCats_name, c.bread AS
animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS
animalsCats_bodyLength, c.height AS animalsCats_height,
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,
d.dateBirth AS animalsDogs_dateBirth,
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS
animalsDogs_bodyLength, d.height AS animalsDogs_height,

```



```

d.speed AS animalsDogs_speed
FROM animalsCats AS c RIGHT JOIN animalsDogs AS d ON 0) AS t RIGHT JOIN
animalsHamsters AS h ON 0) AS t1 LEFT JOIN packAnimalsCamels AS c1 ON 0
UNION
SELECT t1.*, c1.id AS packAnimalsCamels_id, c1.name AS packAnimalsCamels_name,
c1.bread AS packAnimalsCamels_bread, c1.dateBirth AS packAnimalsCamels_dateBirth,
c1.weight AS packAnimalsCamels_weight, c1.color AS packAnimalsCamels_color,
c1.bodyLength AS packAnimalsCamels_bodyLength, c1.height AS
packAnimalsCamels_height,
c1.speed AS packAnimalsCamels_speed, c1.packWeight AS
packAnimalsCamels_packWeight, c1.maximumLoad AS
packAnimalsCamels_maximumLoad,
c1.numberHumps AS packAnimalsCamels_numberHumps
FROM (SELECT t.*, h.id AS animalsHamsters_id, h.name AS animalsHamsters_name,
h.bread AS animalsHamsters_bread, h.dateBirth AS animalsHamsters_dateBirth,
h.weight AS animalsHamsters_weight, h.color AS animalsHamsters_color, h.bodyLength AS
animalsHamsters_bodyLength FROM (SELECT c.id AS animalsCats_id, c.name AS
animalsCats_name, c.bread AS animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS
animalsCats_bodyLength, c.height AS animalsCats_height,
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,
d.dateBirth AS animalsDogs_dateBirth,
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS
animalsDogs_bodyLength, d.height AS animalsDogs_height,
d.speed AS animalsDogs_speed
FROM animalsCats AS c LEFT JOIN animalsDogs AS d ON 0
UNION
SELECT c.id AS animalsCats_id, c.name AS animalsCats_name, c.bread AS
animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS
animalsCats_bodyLength, c.height AS animalsCats_height,
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,
d.dateBirth AS animalsDogs_dateBirth,
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS
animalsDogs_bodyLength, d.height AS animalsDogs_height,
d.speed AS animalsDogs_speed
FROM animalsCats AS c RIGHT JOIN animalsDogs AS d ON 0) AS t LEFT JOIN
animalsHamsters AS h ON 0
UNION
SELECT t.*, h.id AS animalsHamsters_id, h.name AS animalsHamsters_name, h.bread AS
animalsDogs_bread, h.dateBirth AS animalsHamsters_dateBirth,
h.weight AS animalsHamsters_weight, h.color AS animalsHamsters_color, h.bodyLength AS
animalsHamsters_bodyLength FROM (SELECT c.id AS animalsCats_id, c.name AS
animalsCats_name, c.bread AS animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS
animalsCats_bodyLength, c.height AS animalsCats_height,
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,
d.dateBirth AS animalsDogs_dateBirth,

```

```

d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS
animalsDogs_bodyLength, d.height AS animalsDogs_height,
d.speed AS animalsDogs_speed
FROM animalsCats AS c LEFT JOIN animalsDogs AS d ON 0
UNION
SELECT c.id AS animalsCats_id, c.name AS animalsCats_name, c.bread AS
animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS
animalsCats_bodyLength, c.height AS animalsCats_height,
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,
d.dateBirth AS animalsDogs_dateBirth,
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS
animalsDogs_bodyLength, d.height AS animalsDogs_height,
d.speed AS animalsDogs_speed
FROM animalsCats AS c RIGHT JOIN animalsDogs AS d ON 0) AS t RIGHT JOIN
animalsHamsters AS h ON 0) AS t1 RIGHT JOIN packAnimalsCamels AS c1 ON 0) AS t2
LEFT JOIN packAnimalsHorses AS h1 ON 0
UNION
SELECT t2.*, h1.id AS packAnimalsHorses_id, h1.name AS packAnimalsHorses_name,
h1.bread AS packAnimalsHorses_bread, h1.dateBirth AS packAnimalsHorses_dateBirth,
h1.weight AS packAnimalsHorses_weight, h1.color AS packAnimalsHorses_color,
h1.bodyLength AS packAnimalsHorses_bodyLength, h1.height AS
packAnimalsHorses_height,
h1.speed AS packAnimalsHorses_speed, h1.packWeight AS
packAnimalsHorses_packWeight, h1.maximumLoad AS packAnimalsHorses_maximumLoad
FROM (SELECT t1.*, c1.id AS packAnimalsCamels_id, c1.name AS
packAnimalsCamels_name, c1.bread AS packAnimalsCamels_bread, c1.dateBirth AS
packAnimalsCamels_dateBirth,
c1.weight AS packAnimalsCamels_weight, c1.color AS packAnimalsCamels_color,
c1.bodyLength AS packAnimalsCamels_bodyLength, c1.height AS
packAnimalsCamels_height,
c1.speed AS packAnimalsCamels_speed, c1.packWeight AS
packAnimalsCamels_packWeight, c1.maximumLoad AS
packAnimalsCamels_maximumLoad,
c1.numberHumps AS packAnimalsCamels_numberHumps
FROM (SELECT t.*, h.id AS animalsHamsters_id, h.name AS animalsHamsters_name,
h.bread AS animalsHamsters_bread, h.dateBirth AS animalsHamsters_dateBirth,
h.weight AS animalsHamsters_weight, h.color AS animalsHamsters_color, h.bodyLength AS
animalsHamsters_bodyLength FROM (SELECT c.id AS animalsCats_id, c.name AS
animalsCats_name, c.bread AS animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS
animalsCats_bodyLength, c.height AS animalsCats_height,
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,
d.dateBirth AS animalsDogs_dateBirth,
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS
animalsDogs_bodyLength, d.height AS animalsDogs_height,
d.speed AS animalsDogs_speed
FROM animalsCats AS c LEFT JOIN animalsDogs AS d ON 0

```

UNION

```
SELECT c.id AS animalsCats_id, c.name AS animalsCats_name, c.bread AS  
animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,  
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS  
animalsCats_bodyLength, c.height AS animalsCats_height,  
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,  
d.dateBirth AS animalsDogs_dateBirth,  
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS  
animalsDogs_bodyLength, d.height AS animalsDogs_height,  
d.speed AS animalsDogs_speed  
FROM animalsCats AS c RIGHT JOIN animalsDogs AS d ON 0) AS t LEFT JOIN  
animalsHamsters AS h ON 0
```

UNION

```
SELECT t.*, h.id AS animalsHamsters_id, h.name AS animalsHamsters_name, h.bread AS  
animalsHamsters_bread, h.dateBirth AS animalsHamsters_dateBirth,  
h.weight AS animalsHamsters_weight, h.color AS animalsHamsters_color, h.bodyLength AS  
animalsHamsters_bodyLength FROM (SELECT c.id AS animalsCats_id, c.name AS  
animalsCats_name, c.bread AS animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,  
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS  
animalsCats_bodyLength, c.height AS animalsCats_height,  
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,  
d.dateBirth AS animalsDogs_dateBirth,  
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS  
animalsDogs_bodyLength, d.height AS animalsDogs_height,  
d.speed AS animalsDogs_speed  
FROM animalsCats AS c LEFT JOIN animalsDogs AS d ON 0
```

UNION

```
SELECT c.id AS animalsCats_id, c.name AS animalsCats_name, c.bread AS  
animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,  
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS  
animalsCats_bodyLength, c.height AS animalsCats_height,  
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,  
d.dateBirth AS animalsDogs_dateBirth,  
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS  
animalsDogs_bodyLength, d.height AS animalsDogs_height,  
d.speed AS animalsDogs_speed  
FROM animalsCats AS c RIGHT JOIN animalsDogs AS d ON 0) AS t RIGHT JOIN  
animalsHamsters AS h ON 0) AS t1 LEFT JOIN packAnimalsCamels AS c1 ON 0
```

UNION

```
SELECT t1.*, c1.id AS packAnimalsCamels_id, c1.name AS packAnimalsCamels_name,  
c1.bread AS packAnimalsCamels_bread, c1.dateBirth AS packAnimalsCamels_dateBirth,  
c1.weight AS packAnimalsCamels_weight, c1.color AS packAnimalsCamels_color,  
c1.bodyLength AS packAnimalsCamels_bodyLength, c1.height AS  
packAnimalsCamels_height,  
c1.speed AS packAnimalsCamels_speed, c1.packWeight AS  
packAnimalsCamels_packWeight, c1.maximumLoad AS  
packAnimalsCamels_maximumLoad,  
c1.numberHumps AS packAnimalsCamels_numberHumps
```

```

FROM (SELECT t.*, h.id AS animalsHamsters_id, h.name AS animalsHamsters_name,
h.bread AS animalsHamsters_bread, h.dateBirth AS animalsHamsters_dateBirth,
h.weight AS animalsHamsters_weight, h.color AS animalsHamsters_color, h.bodyLength AS
animalsHamsters_bodyLength FROM (SELECT c.id AS animalsCats_id, c.name AS
animalsCats_name, c.bread AS animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS
animalsCats_bodyLength, c.height AS animalsCats_height,
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,
d.dateBirth AS animalsDogs_dateBirth,
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS
animalsDogs_bodyLength, d.height AS animalsDogs_height,
d.speed AS animalsDogs_speed
FROM animalsCats AS c LEFT JOIN animalsDogs AS d ON 0
UNION
SELECT c.id AS animalsCats_id, c.name AS animalsCats_name, c.bread AS
animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS
animalsCats_bodyLength, c.height AS animalsCats_height,
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,
d.dateBirth AS animalsDogs_dateBirth,
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS
animalsDogs_bodyLength, d.height AS animalsDogs_height,
d.speed AS animalsDogs_speed
FROM animalsCats AS c RIGHT JOIN animalsDogs AS d ON 0) AS t LEFT JOIN
animalsHamsters AS h ON 0
UNION
SELECT t.*, h.id AS animalsHamsters_id, h.name AS animalsHamsters_name, h.bread AS
animalsDogs_bread, h.dateBirth AS animalsHamsters_dateBirth,
h.weight AS animalsHamsters_weight, h.color AS animalsHamsters_color, h.bodyLength AS
animalsHamsters_bodyLength FROM (SELECT c.id AS animalsCats_id, c.name AS
animalsCats_name, c.bread AS animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS
animalsCats_bodyLength, c.height AS animalsCats_height,
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,
d.dateBirth AS animalsDogs_dateBirth,
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS
animalsDogs_bodyLength, d.height AS animalsDogs_height,
d.speed AS animalsDogs_speed
FROM animalsCats AS c LEFT JOIN animalsDogs AS d ON 0
UNION
SELECT c.id AS animalsCats_id, c.name AS animalsCats_name, c.bread AS
animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS
animalsCats_bodyLength, c.height AS animalsCats_height,
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,
d.dateBirth AS animalsDogs_dateBirth,
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS
animalsDogs_bodyLength, d.height AS animalsDogs_height,

```

```

d.speed AS animalsDogs_speed
FROM animalsCats AS c RIGHT JOIN animalsDogs AS d ON 0) AS t RIGHT JOIN
animalsHamsters AS h ON 0) AS t1 RIGHT JOIN packAnimalsCamels AS c1 ON 0) AS t2
RIGHT JOIN packAnimalsHorses AS h1 ON 0) AS t3 LEFT JOIN packAnimalsDonkeys AS
d1 ON 0
UNION
SELECT t3.*, d1.id AS packAnimalsDonkeys_id, d1.name AS packAnimalsDonkeys_name,
d1.bread AS packAnimalsDonkeys_bread, d1.dateBirth AS packAnimalsDonkeys_dateBirth,
d1.weight AS packAnimalsDonkeys_weight, d1.color AS packAnimalsDonkeys_color,
d1.bodyLength AS packAnimalsDonkeys_bodyLength, d1.height AS
packAnimalsDonkeys_height,
d1.speed AS packAnimalsDonkeys_speed, d1.packWeight AS
packAnimalsDonkeys_packWeight, d1.maximumLoad AS
packAnimalsDonkeys_maximumLoad
FROM (SELECT t2.*, h1.id AS packAnimalsHorses_id, h1.name AS
packAnimalsHorses_name, h1.bread AS packAnimalsHorses_bread, h1.dateBirth AS
packAnimalsHorses_dateBirth,
h1.weight AS packAnimalsHorses_weight, h1.color AS packAnimalsHorses_color,
h1.bodyLength AS packAnimalsHorses_bodyLength, h1.height AS
packAnimalsHorses_height,
h1.speed AS packAnimalsHorses_speed, h1.packWeight AS
packAnimalsHorses_packWeight, h1.maximumLoad AS packAnimalsHorses_maximumLoad
FROM (SELECT t1.*, c1.id AS packAnimalsCamels_id, c1.name AS
packAnimalsCamels_name, c1.bread AS packAnimalsCamels_bread, c1.dateBirth AS
packAnimalsCamels_dateBirth,
c1.weight AS packAnimalsCamels_weight, c1.color AS packAnimalsCamels_color,
c1.bodyLength AS packAnimalsCamels_bodyLength, c1.height AS
packAnimalsCamels_height,
c1.speed AS packAnimalsCamels_speed, c1.packWeight AS
packAnimalsCamels_packWeight, c1.maximumLoad AS
packAnimalsCamels_maximumLoad,
c1.numberHumps AS packAnimalsCamels_numberHumps
FROM (SELECT t.*, h.id AS animalsHamsters_id, h.name AS animalsHamsters_name,
h.bread AS animalsHamsters_bread, h.dateBirth AS animalsHamsters_dateBirth,
h.weight AS animalsHamsters_weight, h.color AS animalsHamsters_color, h.bodyLength AS
animalsHamsters_bodyLength FROM (SELECT c.id AS animalsCats_id, c.name AS
animalsCats_name, c.bread AS animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS
animalsCats_bodyLength, c.height AS animalsCats_height,
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,
d.dateBirth AS animalsDogs_dateBirth,
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS
animalsDogs_bodyLength, d.height AS animalsDogs_height,
d.speed AS animalsDogs_speed
FROM animalsCats AS c LEFT JOIN animalsDogs AS d ON 0
UNION
SELECT c.id AS animalsCats_id, c.name AS animalsCats_name, c.bread AS
animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,

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```

c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS
animalsCats_bodyLength, c.height AS animalsCats_height,
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,
d.dateBirth AS animalsDogs_dateBirth,
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS
animalsDogs_bodyLength, d.height AS animalsDogs_height,
d.speed AS animalsDogs_speed
FROM animalsCats AS c RIGHT JOIN animalsDogs AS d ON 0) AS t LEFT JOIN
animalsHamsters AS h ON 0
UNION
SELECT t.*, h.id AS animalsHamsters_id, h.name AS animalsHamsters_name, h.bread AS
animalsHamsters_bread, h.dateBirth AS animalsHamsters_dateBirth,
h.weight AS animalsHamsters_weight, h.color AS animalsHamsters_color, h.bodyLength AS
animalsHamsters_bodyLength FROM (SELECT c.id AS animalsCats_id, c.name AS
animalsCats_name, c.bread AS animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS
animalsCats_bodyLength, c.height AS animalsCats_height,
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,
d.dateBirth AS animalsDogs_dateBirth,
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS
animalsDogs_bodyLength, d.height AS animalsDogs_height,
d.speed AS animalsDogs_speed
FROM animalsCats AS c LEFT JOIN animalsDogs AS d ON 0
UNION
SELECT c.id AS animalsCats_id, c.name AS animalsCats_name, c.bread AS
animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS
animalsCats_bodyLength, c.height AS animalsCats_height,
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,
d.dateBirth AS animalsDogs_dateBirth,
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS
animalsDogs_bodyLength, d.height AS animalsDogs_height,
d.speed AS animalsDogs_speed
FROM animalsCats AS c RIGHT JOIN animalsDogs AS d ON 0) AS t RIGHT JOIN
animalsHamsters AS h ON 0) AS t1 LEFT JOIN packAnimalsCamels AS c1 ON 0
UNION
SELECT t1.*, c1.id AS packAnimalsCamels_id, c1.name AS packAnimalsCamels_name,
c1.bread AS packAnimalsCamels_bread, c1.dateBirth AS packAnimalsCamels_dateBirth,
c1.weight AS packAnimalsCamels_weight, c1.color AS packAnimalsCamels_color,
c1.bodyLength AS packAnimalsCamels_bodyLength, c1.height AS
packAnimalsCamels_height,
c1.speed AS packAnimalsCamels_speed, c1.packWeight AS
packAnimalsCamels_packWeight, c1.maximumLoad AS
packAnimalsCamels_maximumLoad,
c1.numberHumps AS packAnimalsCamels_numberHumps
FROM (SELECT t.*, h.id AS animalsHamsters_id, h.name AS animalsHamsters_name,
h.bread AS animalsHamsters_bread, h.dateBirth AS animalsHamsters_dateBirth,

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h.weight AS animalsHamsters_weight, h.color AS animalsHamsters_color, h.bodyLength AS
animalsHamsters_bodyLength FROM (SELECT c.id AS animalsCats_id, c.name AS
animalsCats_name, c.bread AS animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS
animalsCats_bodyLength, c.height AS animalsCats_height,
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,
d.dateBirth AS animalsDogs_dateBirth,
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS
animalsDogs_bodyLength, d.height AS animalsDogs_height,
d.speed AS animalsDogs_speed
FROM animalsCats AS c LEFT JOIN animalsDogs AS d ON 0
UNION
SELECT c.id AS animalsCats_id, c.name AS animalsCats_name, c.bread AS
animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS
animalsCats_bodyLength, c.height AS animalsCats_height,
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,
d.dateBirth AS animalsDogs_dateBirth,
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS
animalsDogs_bodyLength, d.height AS animalsDogs_height,
d.speed AS animalsDogs_speed
FROM animalsCats AS c RIGHT JOIN animalsDogs AS d ON 0) AS t LEFT JOIN
animalsHamsters AS h ON 0
UNION
SELECT t.*, h.id AS animalsHamsters_id, h.name AS animalsHamsters_name, h.bread AS
animalsDogs_bread, h.dateBirth AS animalsHamsters_dateBirth,
h.weight AS animalsHamsters_weight, h.color AS animalsHamsters_color, h.bodyLength AS
animalsHamsters_bodyLength FROM (SELECT c.id AS animalsCats_id, c.name AS
animalsCats_name, c.bread AS animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS
animalsCats_bodyLength, c.height AS animalsCats_height,
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,
d.dateBirth AS animalsDogs_dateBirth,
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS
animalsDogs_bodyLength, d.height AS animalsDogs_height,
d.speed AS animalsDogs_speed
FROM animalsCats AS c LEFT JOIN animalsDogs AS d ON 0
UNION
SELECT c.id AS animalsCats_id, c.name AS animalsCats_name, c.bread AS
animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS
animalsCats_bodyLength, c.height AS animalsCats_height,
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,
d.dateBirth AS animalsDogs_dateBirth,
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS
animalsDogs_bodyLength, d.height AS animalsDogs_height,
d.speed AS animalsDogs_speed

```

```

FROM animalsCats AS c RIGHT JOIN animalsDogs AS d ON 0) AS t RIGHT JOIN
animalsHamsters AS h ON 0) AS t1 RIGHT JOIN packAnimalsCamels AS c1 ON 0) AS t2
LEFT JOIN packAnimalsHorses AS h1 ON 0
UNION
SELECT t2.*, h1.id AS packAnimalsHorses_id, h1.name AS packAnimalsHorses_name,
h1.bread AS packAnimalsHorses_bread, h1.dateBirth AS packAnimalsHorses_dateBirth,
h1.weight AS packAnimalsHorses_weight, h1.color AS packAnimalsHorses_color,
h1.bodyLength AS packAnimalsHorses_bodyLength, h1.height AS
packAnimalsHorses_height,
h1.speed AS packAnimalsHorses_speed, h1.packWeight AS
packAnimalsHorses_packWeight, h1.maximumLoad AS packAnimalsHorses_maximumLoad
FROM (SELECT t1.*, c1.id AS packAnimalsCamels_id, c1.name AS
packAnimalsCamels_name, c1.bread AS packAnimalsCamels_bread, c1.dateBirth AS
packAnimalsCamels_dateBirth,
c1.weight AS packAnimalsCamels_weight, c1.color AS packAnimalsCamels_color,
c1.bodyLength AS packAnimalsCamels_bodyLength, c1.height AS
packAnimalsCamels_height,
c1.speed AS packAnimalsCamels_speed, c1.packWeight AS
packAnimalsCamels_packWeight, c1.maximumLoad AS
packAnimalsCamels_maximumLoad,
c1.numberHumps AS packAnimalsCamels_numberHumps
FROM (SELECT t.*, h.id AS animalsHamsters_id, h.name AS animalsHamsters_name,
h.bread AS animalsHamsters_bread, h.dateBirth AS animalsHamsters_dateBirth,
h.weight AS animalsHamsters_weight, h.color AS animalsHamsters_color, h.bodyLength AS
animalsHamsters_bodyLength FROM (SELECT c.id AS animalsCats_id, c.name AS
animalsCats_name, c.bread AS animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS
animalsCats_bodyLength, c.height AS animalsCats_height,
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,
d.dateBirth AS animalsDogs_dateBirth,
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS
animalsDogs_bodyLength, d.height AS animalsDogs_height,
d.speed AS animalsDogs_speed
FROM animalsCats AS c LEFT JOIN animalsDogs AS d ON 0
UNION
SELECT c.id AS animalsCats_id, c.name AS animalsCats_name, c.bread AS
animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS
animalsCats_bodyLength, c.height AS animalsCats_height,
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,
d.dateBirth AS animalsDogs_dateBirth,
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS
animalsDogs_bodyLength, d.height AS animalsDogs_height,
d.speed AS animalsDogs_speed
FROM animalsCats AS c RIGHT JOIN animalsDogs AS d ON 0) AS t LEFT JOIN
animalsHamsters AS h ON 0
UNION

```



```

SELECT t.*, h.id AS animalsHamsters_id, h.name AS animalsHamsters_name, h.bread AS
animalsHamsters_bread, h.dateBirth AS animalsHamsters_dateBirth,
h.weight AS animalsHamsters_weight, h.color AS animalsHamsters_color, h.bodyLength AS
animalsHamsters_bodyLength FROM (SELECT c.id AS animalsCats_id, c.name AS
animalsCats_name, c.bread AS animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS
animalsCats_bodyLength, c.height AS animalsCats_height,
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,
d.dateBirth AS animalsDogs_dateBirth,
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS
animalsDogs_bodyLength, d.height AS animalsDogs_height,
d.speed AS animalsDogs_speed
FROM animalsCats AS c LEFT JOIN animalsDogs AS d ON 0
UNION
SELECT c.id AS animalsCats_id, c.name AS animalsCats_name, c.bread AS
animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS
animalsCats_bodyLength, c.height AS animalsCats_height,
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,
d.dateBirth AS animalsDogs_dateBirth,
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS
animalsDogs_bodyLength, d.height AS animalsDogs_height,
d.speed AS animalsDogs_speed
FROM animalsCats AS c RIGHT JOIN animalsDogs AS d ON 0) AS t RIGHT JOIN
animalsHamsters AS h ON 0) AS t1 LEFT JOIN packAnimalsCamels AS c1 ON 0
UNION
SELECT t1.*, c1.id AS packAnimalsCamels_id, c1.name AS packAnimalsCamels_name,
c1.bread AS packAnimalsCamels_bread, c1.dateBirth AS packAnimalsCamels_dateBirth,
c1.weight AS packAnimalsCamels_weight, c1.color AS packAnimalsCamels_color,
c1.bodyLength AS packAnimalsCamels_bodyLength, c1.height AS
packAnimalsCamels_height,
c1.speed AS packAnimalsCamels_speed, c1.packWeight AS
packAnimalsCamels_packWeight, c1.maximumLoad AS
packAnimalsCamels_maximumLoad,
c1.numberHumps AS packAnimalsCamels_numberHumps
FROM (SELECT t.*, h.id AS animalsHamsters_id, h.name AS animalsHamsters_name,
h.bread AS animalsHamsters_bread, h.dateBirth AS animalsHamsters_dateBirth,
h.weight AS animalsHamsters_weight, h.color AS animalsHamsters_color, h.bodyLength AS
animalsHamsters_bodyLength FROM (SELECT c.id AS animalsCats_id, c.name AS
animalsCats_name, c.bread AS animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS
animalsCats_bodyLength, c.height AS animalsCats_height,
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,
d.dateBirth AS animalsDogs_dateBirth,
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS
animalsDogs_bodyLength, d.height AS animalsDogs_height,
d.speed AS animalsDogs_speed
FROM animalsCats AS c LEFT JOIN animalsDogs AS d ON 0

```

UNION

```
SELECT c.id AS animalsCats_id, c.name AS animalsCats_name, c.bread AS  
animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,  
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS  
animalsCats_bodyLength, c.height AS animalsCats_height,  
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,  
d.dateBirth AS animalsDogs_dateBirth,  
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS  
animalsDogs_bodyLength, d.height AS animalsDogs_height,  
d.speed AS animalsDogs_speed  
FROM animalsCats AS c RIGHT JOIN animalsDogs AS d ON 0) AS t LEFT JOIN  
animalsHamsters AS h ON 0
```

UNION

```
SELECT t.*, h.id AS animalsHamsters_id, h.name AS animalsHamsters_name, h.bread AS  
animalsDogs_bread, h.dateBirth AS animalsHamsters_dateBirth,  
h.weight AS animalsHamsters_weight, h.color AS animalsHamsters_color, h.bodyLength AS  
animalsHamsters_bodyLength FROM (SELECT c.id AS animalsCats_id, c.name AS  
animalsCats_name, c.bread AS animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,  
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS  
animalsCats_bodyLength, c.height AS animalsCats_height,  
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,  
d.dateBirth AS animalsDogs_dateBirth,  
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS  
animalsDogs_bodyLength, d.height AS animalsDogs_height,  
d.speed AS animalsDogs_speed  
FROM animalsCats AS c LEFT JOIN animalsDogs AS d ON 0
```

UNION

```
SELECT c.id AS animalsCats_id, c.name AS animalsCats_name, c.bread AS  
animalsCats_bread, c.dateBirth AS animalsCats_dateBirth,  
c.weight AS animalsCats_weight, c.color AS animalsCats_color, c.bodyLength AS  
animalsCats_bodyLength, c.height AS animalsCats_height,  
d.id AS animalsDogs_id, d.name AS animalsDogs_name, d.bread AS animalsDogs_bread,  
d.dateBirth AS animalsDogs_dateBirth,  
d.weight AS animalsDogs_weight, d.color AS animalsDogs_color, d.bodyLength AS  
animalsDogs_bodyLength, d.height AS animalsDogs_height,  
d.speed AS animalsDogs_speed  
FROM animalsCats AS c RIGHT JOIN animalsDogs AS d ON 0) AS t RIGHT JOIN  
animalsHamsters AS h ON 0) AS t1 RIGHT JOIN packAnimalsCamels AS c1 ON 0) AS t2  
RIGHT JOIN packAnimalsHorses AS h1 ON 0) AS t3 RIGHT JOIN packAnimalsDonkeys AS  
d1 ON 0;
```

The screenshot shows the SQL Studio interface. At the top, a script editor displays a complex SQL query. The query is a SELECT statement with multiple subqueries and joins. The results table is visible below the script editor, showing columns for animalsCats_id, animalsCats_name, animalsCats_bread, animalsCats_dateBirth, animalsCats_weight, animalsCats_color, and animalsCats_bodyLength. The data includes rows for 'Рудик', 'Лиза', and 'Маруся'.