

# Отчёт #1

Всем привет. Небольшое практическое задание , которое надо выполнить до нашего созвона во вторник в 11.

Задание в следующем:

1. Почитать дополнительно (<https://githubtraining.github.io/training-manual/#/>) про Git. Можно любой другой материал, главное - понять, в чем суть Git-а. (также, оставляю полезную шпаргалку (<https://training.github.com/downloads/ru/github-git-cheat-sheet/>)).

Прочитал эту статью.

[https://git-scm.com/book/ru/v2/%D0%92%D0%B2%D0%B5%D0%B4%D0%B5%D0%BD%D0%B8%D0%B5-%D0%A7%D1%82%D0%BE-%D1%82%D0%B0%D0%BA%D0%BE%D0%B5-Git%3F#what\\_is\\_git\\_section](https://git-scm.com/book/ru/v2/%D0%92%D0%B2%D0%B5%D0%B4%D0%B5%D0%BD%D0%B8%D0%B5-%D0%A7%D1%82%D0%BE-%D1%82%D0%B0%D0%BA%D0%BE%D0%B5-Git%3F#what_is_git_section)

2. Почитать про ветки в Git (git branch). Также, почитать про git push и git pull. Потренировать команды Git, которые были пройдены, а также git branch, git push, git pull. Создать текстовый файл, в котором расписать свое понимание концепта веток в Git, а также команды, которые выполняли для тренировки и скинуть этот текстовый файл с помощью git push в свой репозиторий на Гитхабе.

Понимание веток: Ветка это указатель на какой-либо коммит.

Команды:

Я их не тренировал, поскольку использую их каждый день.

Вместо этого, прочитал статью про отмену изменений в git.

Источники:

1) О ветках: <https://git-scm.com/book/ru/v2/%D0%B5%D1%82%D0%B2%D0%BB%D0%B5%D0%BD%D0%B8%D0%B5-%D0%B2-Git-%D0%9E-%D0%B2%D0%B5%D1%82%D0%B2%D0%BB%D0%B5%D0%BD%D0%B8%D0%B8-%D0%B2-%D0%B4%D0%B2%D1%83%D1%85-%D1%81%D0%BB%D0%BE%D0%B2%D0%B0%D1%85>

2) Отмена изменений: <https://timeweb.cloud/tutorials/git/kak-otmenit-izmeneniya-v-git>

## 2. Команды

```
siyovush@siyovush-laptop-ubuntu:~/Desktop/Work/a1-project/devops-bootcamp/DevOps$ git branch
new_branch
```

```
siyovush@siyovush-laptop-ubuntu:~/Desktop/Work/a1-project/devops-bootcamp/DevOps$ git checkout  
new branch
```

Switched to branch 'new branch'

```
siyovush@siyovush-laptop-ubuntu:~/Desktop/Work/a1-project/devops-bootcamp/DevOps$ touch
new file.txt
```

```
siyovush@siyovush-laptop-ubuntu:~/Desktop/Work/a1-project/devops-bootcamp/DevOps$ nano
new_file.txt
```

```
siyovush@siyovush-laptop-ubuntu:~/Desktop/Work/a1-project/devops-bootcamp/DevOps$ git add
new file.txt
```

```
siyovush@siyovush-laptop-ubuntu:~/Desktop/Work/a1-project/devops-bootcamp/DevOps$ git commit -m "added sensitive information"
```

```
[new_branch f4955a7] added sensitive information
```

```
1 file changed, 1 insertion(+)
```

```
create mode 100644 new_file.txt
```

```
siyovush@siyovush-laptop-ubuntu:~/Desktop/Work/a1-project/devops-bootcamp/DevOps$ git reset HEAD~1
```

```
siyovush@siyovush-laptop-ubuntu:~/Desktop/Work/a1-project/devops-bootcamp/DevOps$ git status
```

```
On branch new_branch
```

```
Untracked files:
```

```
(use "git add <file>..." to include in what will be committed)
```

```
new_file.txt
```

```
nothing added to commit but untracked files present (use "git add" to track)
```

```
siyovush@siyovush-laptop-ubuntu:~/Desktop/Work/a1-project/devops-bootcamp/DevOps$ git log
```

```
commit 8617b71162972480533e9bdf67787f35b3db8c81 (HEAD -> new_branch, origin/main, origin/HEAD, main)
```

```
Author: Hamidov Siyovush <161587226+siyovush-hamidov@users.noreply.github.com>
```

```
Date: Fri Jun 14 10:19:28 2024 +0500
```

```
Add files via upload
```

```
commit 6eb2e6d080727b07775ef66f92585e90ac5d929b
```

```
Author: Hamidov Siyovush <161587226+siyovush-hamidov@users.noreply.github.com>
```

```
Date: Wed Mar 20 19:02:25 2024 +0500
```

```
Update Readme.md
```

```
siyovush@siyovush-laptop-ubuntu:~/Desktop/Work/a1-project/devops-bootcamp/DevOps$ git add new_file.txt
```

```
siyovush@siyovush-laptop-ubuntu:~/Desktop/Work/a1-project/devops-bootcamp/DevOps$ git commit -m "Adding once more the sensitive data"
```

```
[new_branch 9041606] Adding once more the sensitive data
```

```
1 file changed, 1 insertion(+)
```

```
create mode 100644 new_file.txt
```

```
siyovush@siyovush-laptop-ubuntu:~/Desktop/Work/a1-project/devops-bootcamp/DevOps$ git log
```

```
commit 904160650f43c2380c970d5bee7b6977560ec3d5 (HEAD -> new_branch)
```

```
Author: siyovush-hamidov <siyovushchik14@gmail.com>
```

```
Date: Tue Jul 9 14:15:15 2024 +0500
```

```
Adding once more the sensitive data
```

commit 8617b71162972480533e9bdf67787f35b3db8c81 (origin/main, origin/HEAD, main)

Author: Hamidov Siyovush <161587226+siyovush-hamidov@users.noreply.github.com>

Date: Fri Jun 14 10:19:28 2024 +0500

Add files via upload

siyovush@siyovush-laptop-ubuntu:~/Desktop/Work/a1-project/devops-bootcamp/DevOps\$ git reset HEAD~1

siyovush@siyovush-laptop-ubuntu:~/Desktop/Work/a1-project/devops-bootcamp/DevOps\$ git log

commit 8617b71162972480533e9bdf67787f35b3db8c81 (HEAD -> new\_branch, origin/main, origin/HEAD, main)

Author: Hamidov Siyovush <161587226+siyovush-hamidov@users.noreply.github.com>

Date: Fri Jun 14 10:19:28 2024 +0500

Add files via upload

commit 6eb2e6d080727b07775ef66f92585e90ac5d929b

Author: Hamidov Siyovush <161587226+siyovush-hamidov@users.noreply.github.com>

Date: Wed Mar 20 19:02:25 2024 +0500

Update Readme.md

siyovush@siyovush-laptop-ubuntu:~/Desktop/Work/a1-project/devops-bootcamp/DevOps\$

В общем, потренировал git reset, почитал про другие.

3. Установить СУБД postgres на своей виртуальной машине. Создать там БД под любым названием, создать пользователя, создать под ним несколько таблиц и заполнить их данными, показать содержимое этих таблиц. Все эти команды сохранить в текстовом файле и залить его в тот же репозиторий, в котором уже есть файл из пункта 2

```
[Siyovush@localhost ~]$ sudo yum install -y
```

[https://download.postgresql.org/pub/repos/yum/repos/pms/EL-7-x86\\_64/pgdg-redhat-repo-latest.noarch.rpm](https://download.postgresql.org/pub/repos/yum/repos/pms/EL-7-x86_64/pgdg-redhat-repo-latest.noarch.rpm)

```
[Siyovush@localhost ~]$ sudo yum install -y postgresql15-server
```

```
[Siyovush@localhost ~]$ sudo /usr/pgsql-15/bin/postgresql-15-setup initdb
```

```
[Siyovush@localhost ~]$ sudo systemctl enable postgresql-15
```

```
[Siyovush@localhost ~]$ sudo systemctl start postgresql-15
```

```
[Siyovush@localhost ~]$ sudo passwd postgres
```

```
[sudo] password for Siyovush:
```

Changing password for user postgres.

New password:

BAD PASSWORD: The password contains the user name in some form

Retype new password:

passwd: all authentication tokens updated successfully.

[Siyovush@localhost ~]\$ su - postgres

-bash-4.2\$ psql

psql (15.7)

Type "help" for help.

postgres=# create database siyovush\_db;

CREATE DATABASE

postgres=# create user siyovush with password 'siyovush';

CREATE ROLE

postgres=# alter database siyovush\_db owner to siyovush;

ALTER DATABASE

postgres=# grant all privileges on database siyovush\_db to siyovush;

GRANT

postgres=# \conninfo

You are connected to database "postgres" as user "postgres" via socket in "/run/postgresql" at port "5432".

postgres=# \q

-bash-4.2\$ exit

[Siyovush@localhost ~]\$ sudo usermod -aG wheel postgres

-bash-4.2\$ sudo systemctl list-units --type=service | grep postgresql

postgresql-15.service loaded active running PostgreSQL 15 database server

-bash-4.2\$ sudo systemctl restart postgresql-15.service

-bash-4.2\$ sudo systemctl status postgresql-15.service

● postgresql-15.service - PostgreSQL 15 database server

Loaded: loaded (/usr/lib/systemd/system/postgresql-15.service; enabled; vendor preset: disabled)

Active: active (running) since Tue 2024-07-09 10:56:20 +05; 9s ago

Docs: <https://www.postgresql.org/docs/15/static/>

Process: 10419 ExecStartPre=/usr/pgsql-15/bin/postgresql-15-check-db-dir \${PGDATA} (code=exited, status=0/SUCCESS)

Main PID: 10425 (postmaster)

Tasks: 7

CGroup: /system.slice/postgresql-15.service

└─10425 /usr/pgsql-15/bin/postmaster -D /var/lib/pgsql/15/data/

```
└─10428 postgres: logger
└─10429 postgres: checkpointer
└─10430 postgres: background writer
└─10432 postgres: walwriter
└─10433 postgres: autovacuum launcher
└─10434 postgres: logical replication launcher
```

Jul 09 10:56:20 localhost.localdomain systemd[1]: Starting PostgreSQL 15 database server...

Jul 09 10:56:20 localhost.localdomain postmaster[10425]: 2024-07-09 10:56:20.646 +05 [10425] LOG: redirecting log output to syslog

Jul 09 10:56:20 localhost.localdomain postmaster[10425]: 2024-07-09 10:56:20.646 +05 [10425] HINT: Future log output will use syslog.

Jul 09 10:56:20 localhost.localdomain systemd[1]: Started PostgreSQL 15 database server.

Hint: Some lines were ellipsized, use -l to show in full.

```
-bash-4.2$ psql -U siyovush -d siyovush_db
```

Password for user siyovush:

psql (15.7)

Type "help" for help.

```
siyovush_db=> \conninfo
```

You are connected to database "siyovush\_db" as user "siyovush" via socket in "/run/postgresql" at port "5432".

```
siyovush_db=> create table table1(
```

```
    id int,
```

```
    name varchar(40)
```

```
);
```

CREATE TABLE

```
siyovush_db=> insert into table1 values(1, 'siyovush');
```

INSERT 0 1

```
siyovush_db=> select * from table1;
```

```
id | name
```

```
----+-----
```

```
1 | siyovush
```

(1 row)

```
siyovush_db=> create table table2(id int, interests varchar(40));
```

CREATE TABLE

```
siyovush_db=> insert into table2 values(1, 'Samsung')
```

```
siyovush_db-> ;
```

```
INSERT 0 1
```

```
siyovush_db=> select * from table2;
```

```
id | interests
```

```
----+-----
```

```
1 | Samsung
```

```
(1 row)
```