

O'ZBEKISTON RESPUBLIKASI RAQAMLI TEXNOLOGIYALARI VA KOMMUNIKATSIYALARNI
RIVOJLANTIRISH VAZIRLIGI
MUHAMMAD AL-XORAZMIY NOMIDAGI TOSHKENT AXBOROT TEXNOLOGIYALARI UNIVERSITETI



“Ish yuritish analitikasi” fanidan

AMALIY TOPSHIRIQ № 1

Mavzu: Microsoft Excel da tayyorlangan jadval ko'rinishidagi hisobotni
PowerBI da visuallashtirish

Bajardi: Elektron tijorat ta'lim yo'nalishi

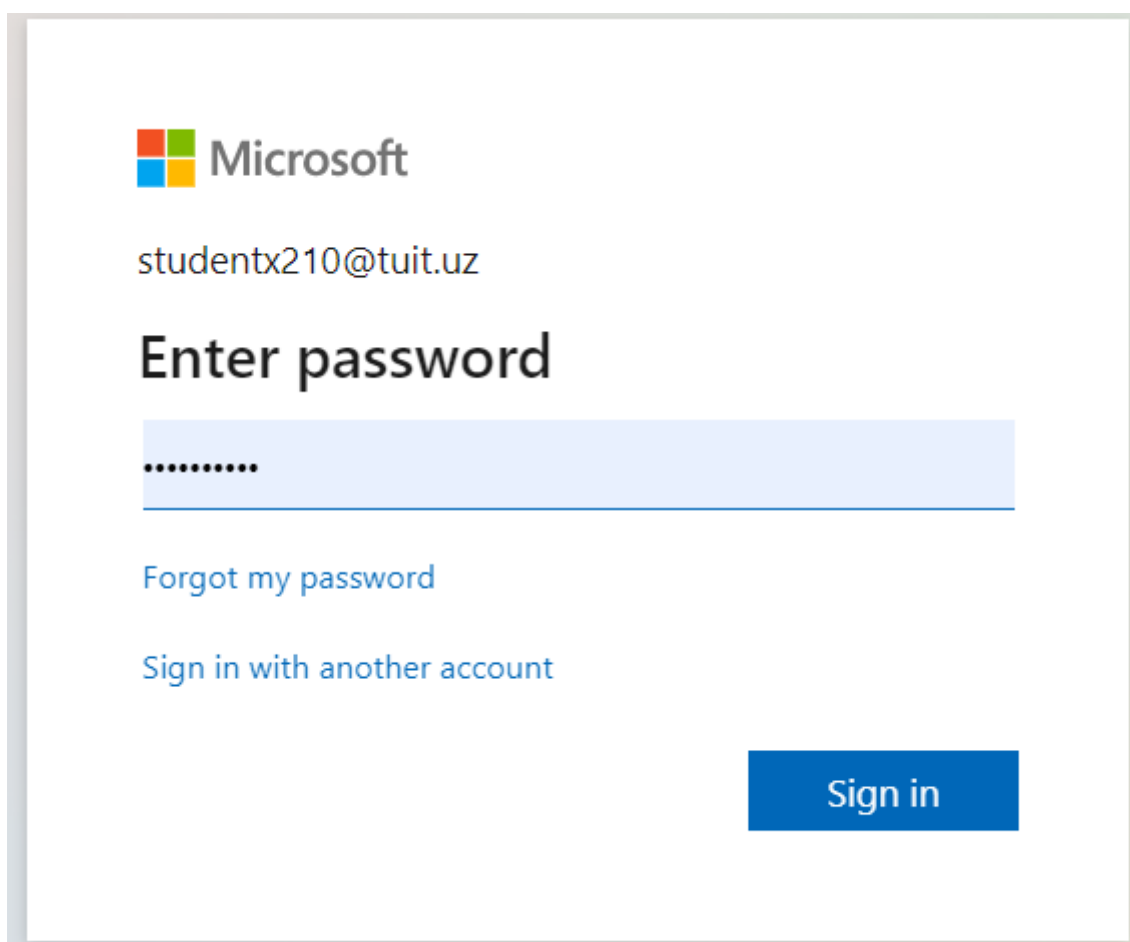
011-20 guruh talabasi

Erkinov Khumoyun Erkin o'g'li

Toshkent 2024

Hozir ma'lumotlar asrida yashayotganimiz tufayli, zamonamizning oltini "data" - ma'lumot bo'lib qoldi. Ma'lumotlar ustida ishlash, analitika qilish bizni sun'iy intellekt imkoniyatlarini ochishgacha yetaklab boradi. Ammo buning uchun shunchaki jadvaldagi millionlab qatorli ma'lumotlar va ularni ko'zdan kechirib tahlil qilish o'ta mushkul bo'lardi. Shu muammoni hal qilish uchun bizga BI dasturlar yordamga keladi. BI dasturlar bizga millionlab qatorli jadvallarni vizualizatsiya qilib analiz qilishimizga, u haqida xulosalar chiqarishimizga imkon beradi. Ulardan eng keng tarqalgan Microsoft kompaniyasi tomonidan ishlab chiqilgan Power BI dasturidir. Ushbu amaliy ishda Power BI dan foydalanib uning imoniyatlari haqida tushuncha hosil qilamiz.

1. Birinchi navbatda Power BI ga Microsoft akkountim orqali login qildim:



Microsoft

studentx210@tuit.uz

Enter password


.....

[Forgot my password](#)


[Sign in with another account](#)

Sign in

- 2.

 Microsoft

Sign out





khumoyun erkinov
studentx210@tuit.uz


License type:
Free account

Trial Status:
58 days left

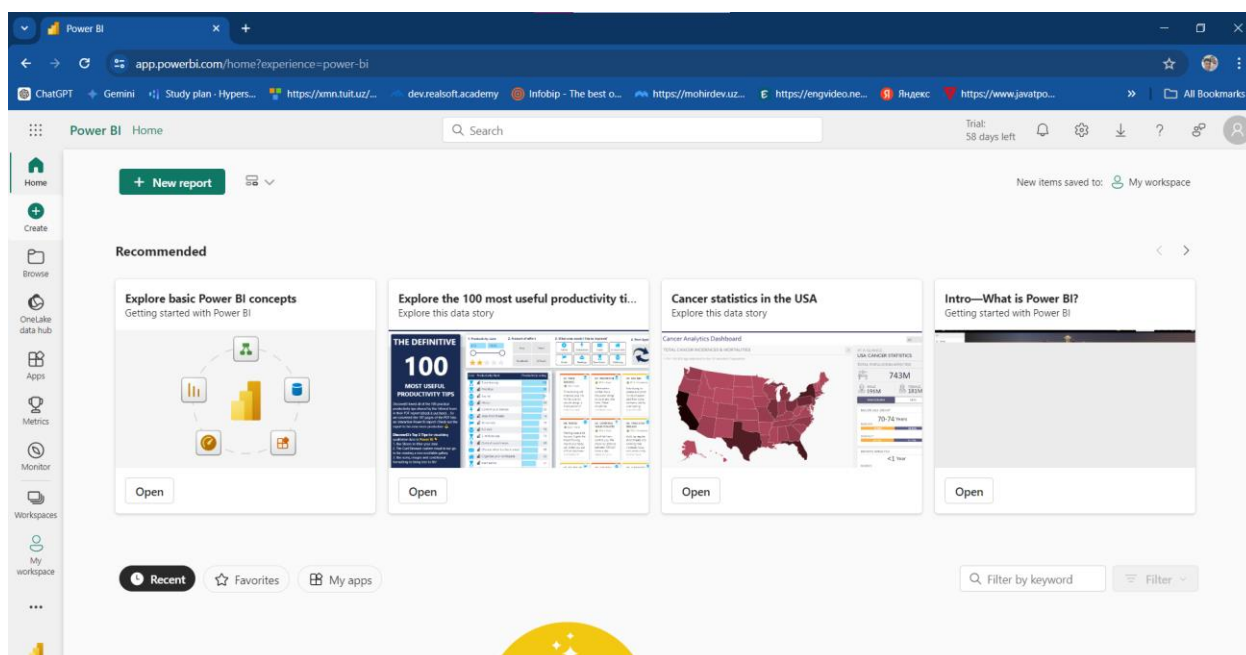
[Cancel trial](#)

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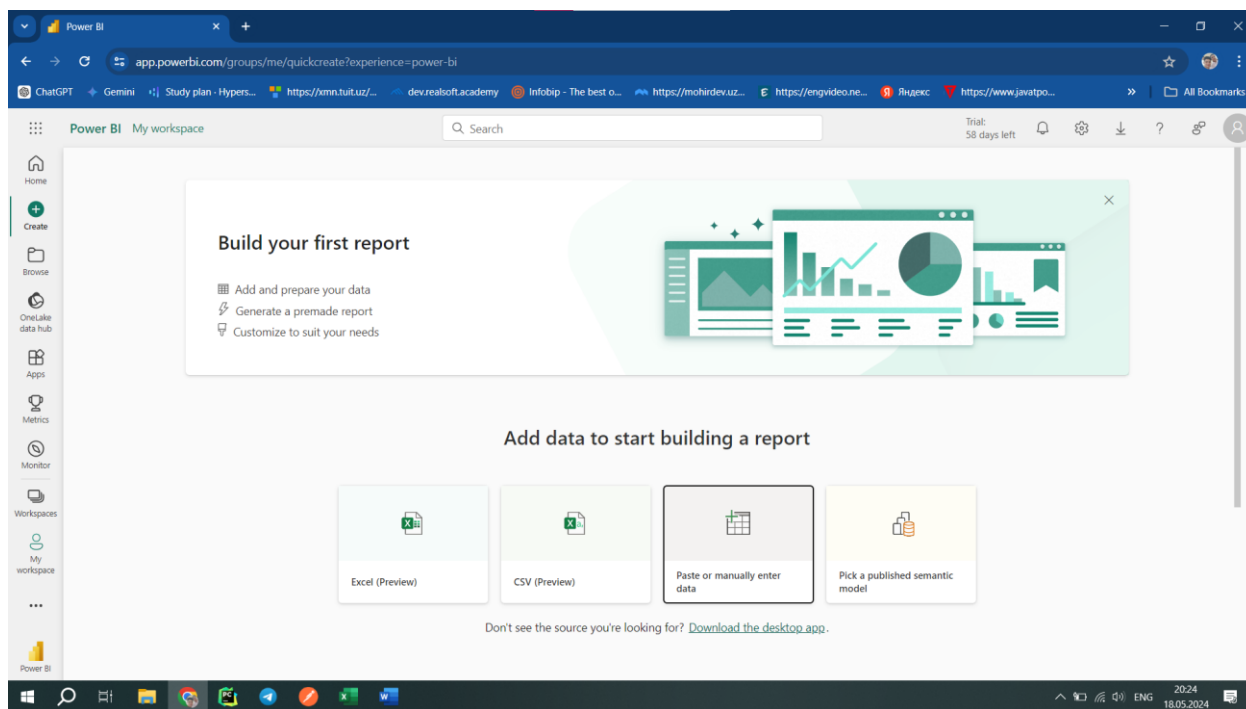
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3. Power BI asosiy oynasi ochildi. Oynani chap tarafida biz Power BI ning uskunalar panelini va undagi menyularni ko'ramiz. Oyna markazida esa ishchi maydon. Ushbu ishchi maydonda bizga ish bshlashimiz uchun ma'lumotlarni tizimga yuklash uchun bir nechta usullar taklif qilingan.



4. Biz Power BI ga ma'lumotlarni qo'lda(manual) kiritishimiz, Excel yoki CSV fayldagi mavjud jadvallarni yuklashimiz mumkin. Shaxsiy tajribamdan kelib chiqib aytamanki, amaliyotda Excel va CSV fayldagi ma'lumotlarni yuklash ko'proq qo'llaniladi. Chunki real loyihalarda Power BI vizualizatsiya va analitika uchun ishlatiladi, ma'lumotlarni qo'lda to'ldirish yoki tahrirlash uchun emas. Shuning uchun men ham excel fayldagi ma'lumotlarni yuklashni tanladim.



Power Query

Get data

Enter data

Copy and paste data into the table, or enter data manually. Be sure the data type matches the values in each column. [Learn more](#)

Use first row as headers

ABC
123

Column1

+

1

+

Name

Table

Auto-create report

Cancel

5. Jadvalda mening dasturim tomonidan Sentabr oyidan Dekabr oyigacha boʻlgan prod va dev serverlardan MyIDtizimiga boʻlgan soʻrovlar sonini koʻrish mumkin.

Power Query

Get data

Enter data

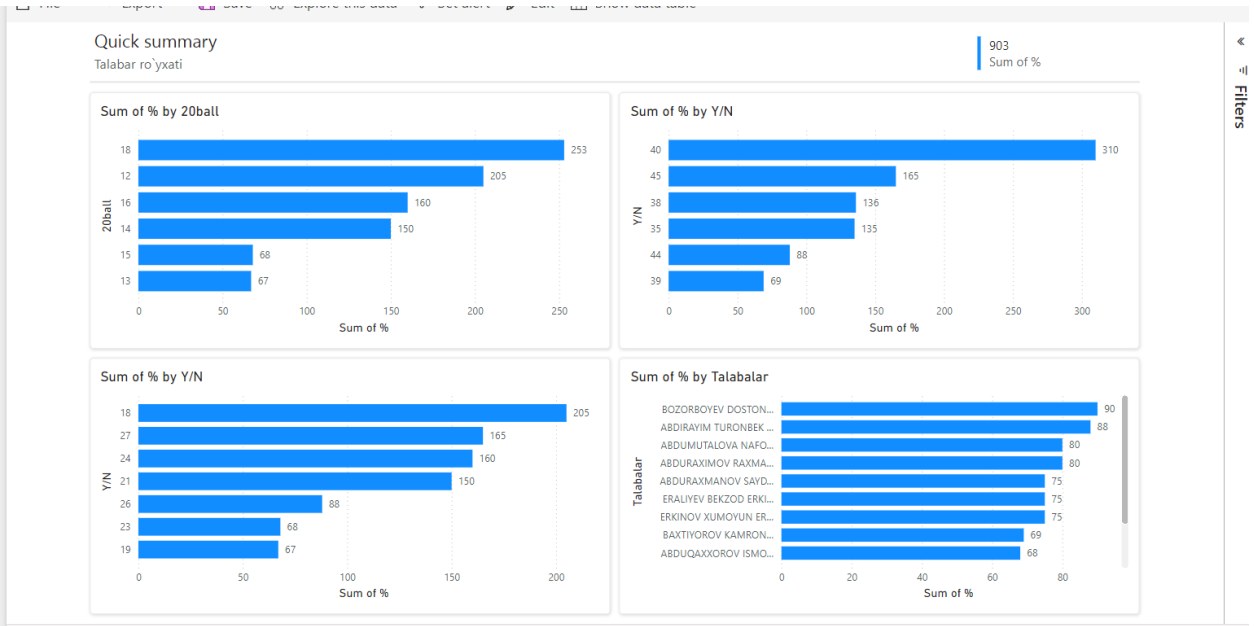
Copy and paste data into the table, or enter data manually. Be sure the data type matches the values in each column. [Learn more](#)

Use first row as headers

ABC 123	Talabalar	ABC 123	20ball	ABC 123	Y/N	ABC 123	Y/N	ABC 123	%	+
1	ABDIRAYIM TURONBEK ELMUROD O'G'LI	18		26		44		88		
2	ABDUMUTALOVA NAFOSAT ABDURASHLI...	16		24		40		80		
3	ABDUQAXOROV ISMOILXON RUSTAMX...	12		18		35		68		
4	ABDURAXIMOV RAXMATILLO AKBAR O'...	16		24		40		80		
5	ABDURAXIMANOV SAYDULLA QAHRAM...	14		21		40		75		
6	ABDUXAKIMOV RAXMATULLOH BAHODI...	13		19		35		67		
7	BAKTIYOROV KAMRONBEK BOTIR O'G'LI	12		18		39		69		
8	BERDINAZAROV SOBIRJON NURIDIN O'...	12		18		38		68		
9	BOZORBOYEV DOSTONBEK RAXMIDDIN ...	18		27		45		90		
10	DJALALOV ELYORBEK DILSHODBEK O'G'LI	15		23		38		68		
11	ERALIYEV BEKZOD ERKIN O'G'LI	18		27		45		75		
12	ERKINOV XUMOIYUN ERKIN O'G'LI	14		21		40		75		
+										

Name

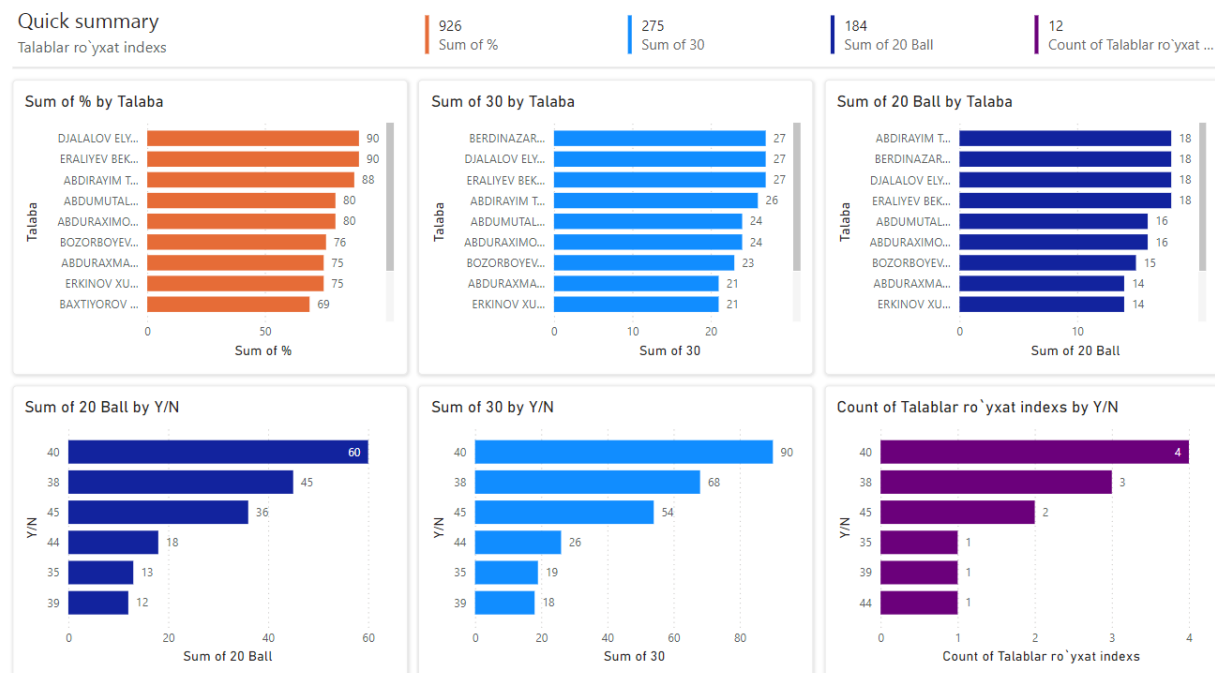
Talabar ro'yxati





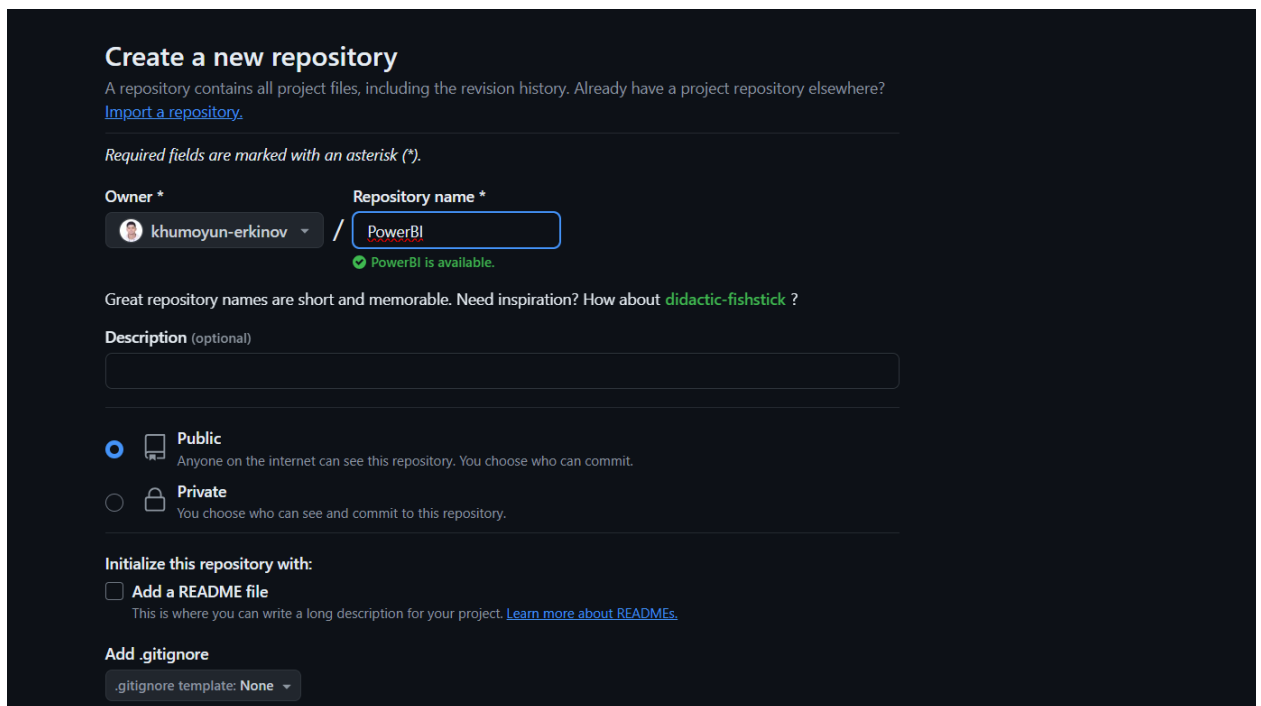
6. Bu a'lumotlar juda muhim, chunki har bir so'rov uchun kompaniya to'lov qiladi. Shuning uchun ham bu to'lov summalari haqida, ularning oshib borishi haqida kengroq tushunchaga ega bo'lish uchun bizga **vizualizatsiya** kerak bo'ladi. Aynan shuning uchun ham biz jadvalni Power BI ga yukladik. Chunki power BI bizga analitika uchun keng imkoniyatlar taqdim qiladi. **Create** tugmasini bosish orqali bizga jadvalimiz haqda vizual am'lumot beruvchi diagramma shakllantiriladi:

Talabalar ro'yxatini To'liq indexsi



Biz ushbu diagrammani turli xil ko'rinishlarga keltirishimiz mumkin.


7. Endi ushbu faylga boshqa qurilmalardan hamkasblarimiz ham oson murojaat qila olishlari uchun biron bulutli axborot tizimiga yuklashimiz kerak. Bunda Dasturchi va data analitiklar ko'p foydalanadigan tizim - **github** ayni muddao. github akkountimizga kirib yangi repository yaratamiz:




Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)


Required fields are marked with an asterisk (*).


Owner *  khumoyun-erkinov / Repository name *

 PowerBI is available.

Great repository names are short and memorable. Need inspiration? How about **didactic-fishstick** ?

Description (optional)

☒  **Public**
Anyone on the internet can see this repository. You choose who can commit.

☐  **Private**
You choose who can see and commit to this repository.

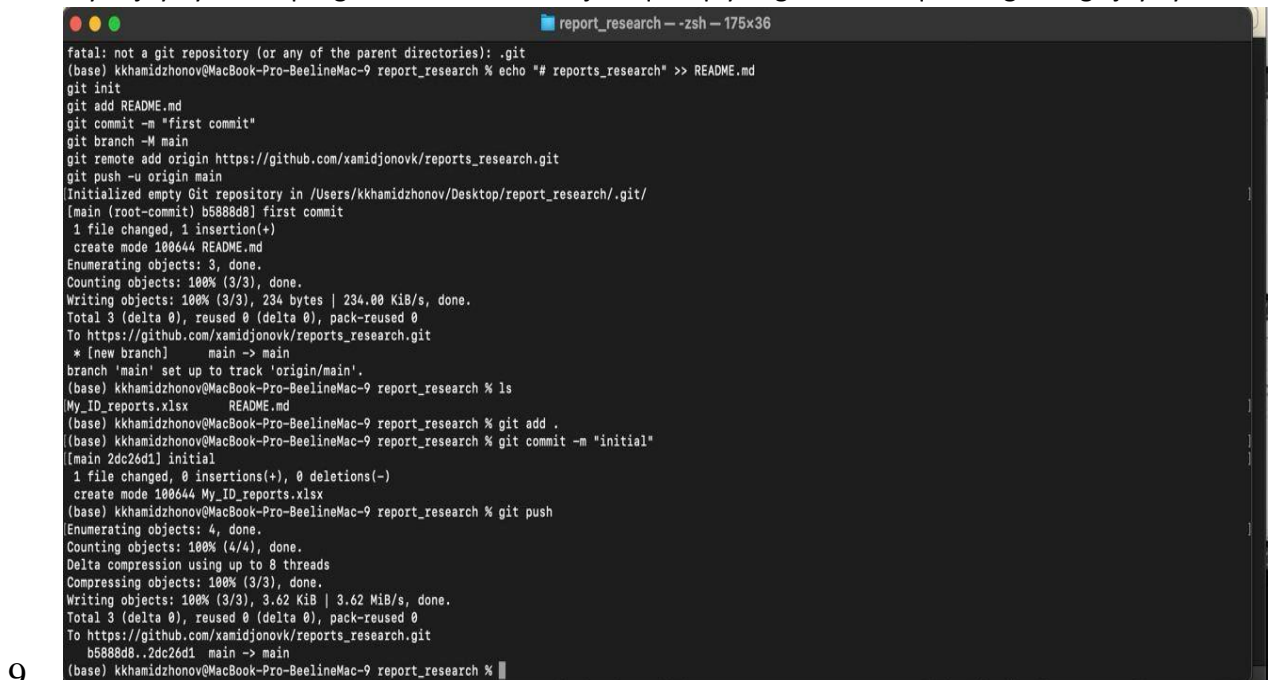
Initialize this repository with:

☐ Add a README file
This is where you can write a long description for your project. [Learn more about READMEs.](#)

Add .gitignore

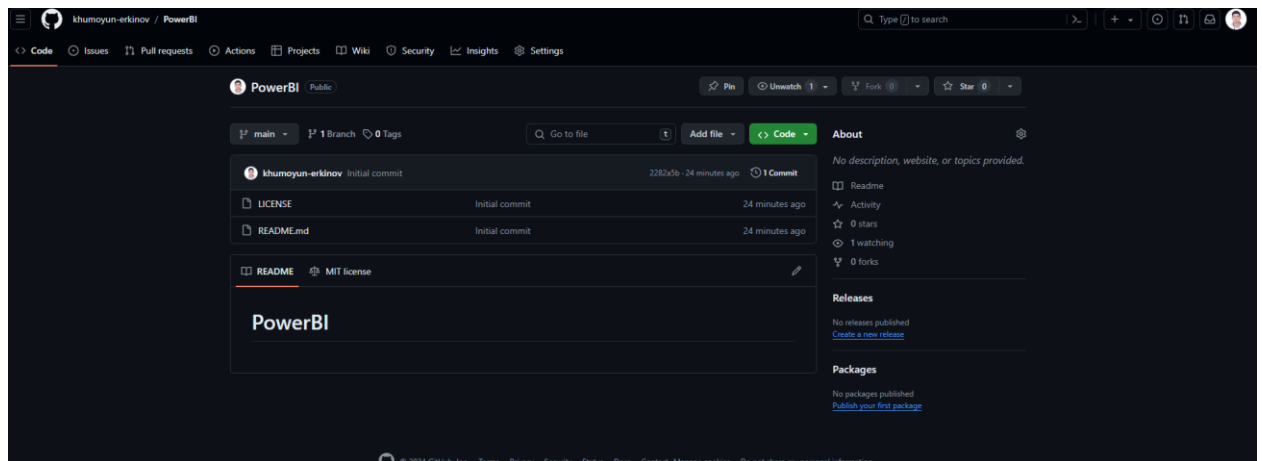
.gitignore template: **None**

8. 10. Lokal kompyuterimizda ushbu repositoryga bog'lash uchun papka yaratib unga zaruriy excel faylni joylaymiz. Papkaga terminaldan murojaat qilib quyidagi kodlar orqali uni githubga joylaymiz:



```
report_research - zsh - 175x36
fatal: not a git repository (or any of the parent directories): .git
(base) kkhmidzhonov@MacBook-Pro-BeelineMac-9 report_research % echo "# reports_research" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/xamidjonovk/reports_research.git
git push -u origin main
Initialized empty Git repository in /Users/kkhamidzhonov/Desktop/report_research/.git/
[main (root-commit) b5888d8] first commit
1 file changed, 1 insertion(+)
create mode 100644 README.md
Enumerating objects: 3, done.
Counting objects: 100% (3/3), 234 bytes | 234.00 KiB/s, done.
Writing objects: 100% (3/3), 234 bytes | 234.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/xamidjonovk/reports_research.git
* [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
(base) kkhmidzhonov@MacBook-Pro-BeelineMac-9 report_research % ls
My_ID_reports.xlsx  README.md
(base) kkhmidzhonov@MacBook-Pro-BeelineMac-9 report_research % git add .
(base) kkhmidzhonov@MacBook-Pro-BeelineMac-9 report_research % git commit -m "initial"
[main 2dc26d1] initial
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 My_ID_reports.xlsx
(base) kkhmidzhonov@MacBook-Pro-BeelineMac-9 report_research % git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), 3.62 KiB | 3.62 MiB/s, done.
Writing objects: 100% (3/3), 3.62 KiB | 3.62 MiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/xamidjonovk/reports_research.git
b5888d8..2dc26d1  main -> main
(base) kkhmidzhonov@MacBook-Pro-BeelineMac-9 report_research %
```

- 9.



<https://github.com/khumoyun-erkinov/PowerBI>