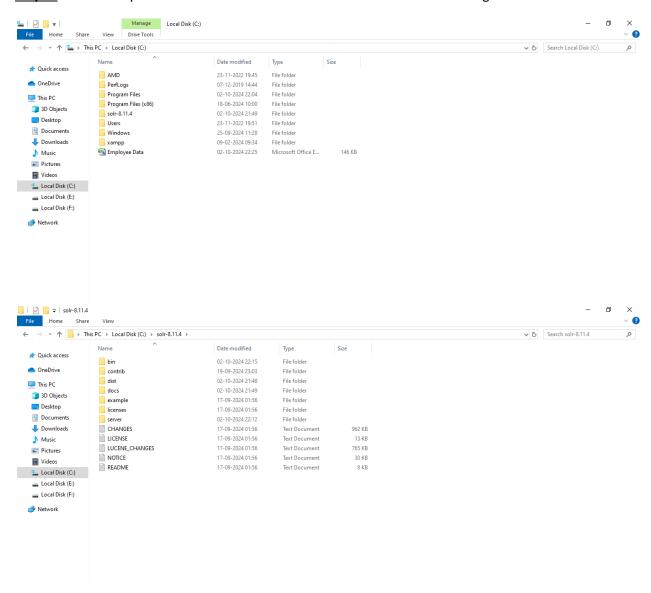
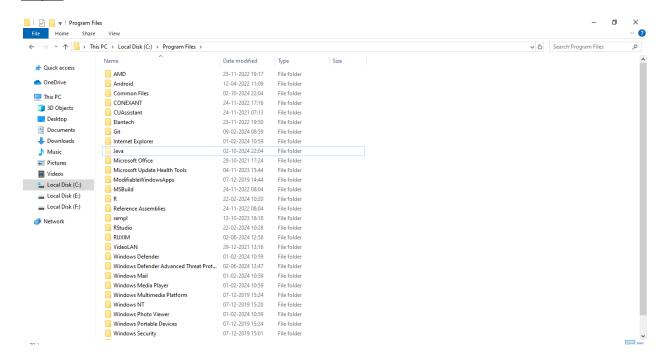
Round 2-Apache Solr Assessment

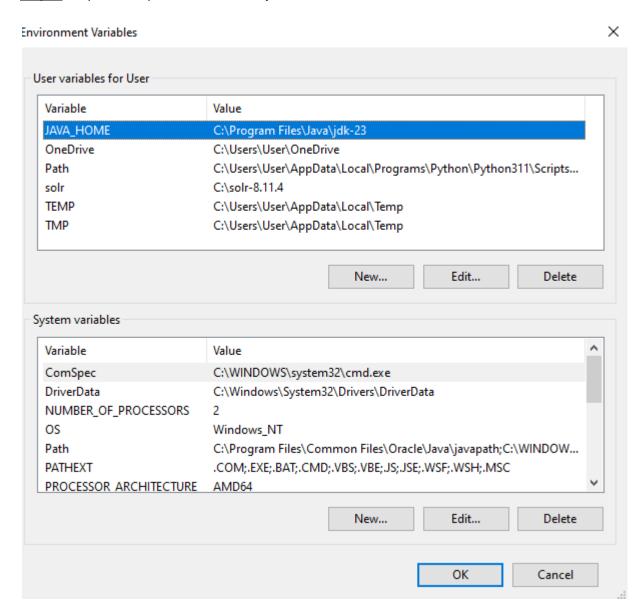
Step 1: Install the apache solr taz file from official site and extract that file using Rar Software.



Step 2: Install Java JDK software from official site and install it on windows.



Step 3: Set path for Apache solr and Java jdk.



```
Microsoft Windows [Version 10.0.19045.4291]
(c) Microsoft Corporation. All rights reserved.

C:\Users\User>solr -v

8.11.4

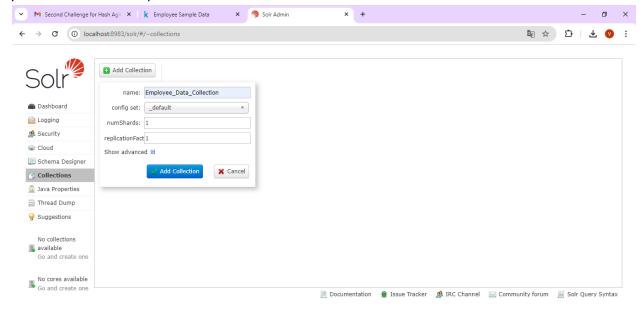
C:\Users\User>java --version
java 23 2024-09-17
Java(TM) SE Runtime Environment (build 23+37-2369)
Java HotSpot(TM) 64-Bit Server VM (build 23+37-2369, mixed mode, sharing)

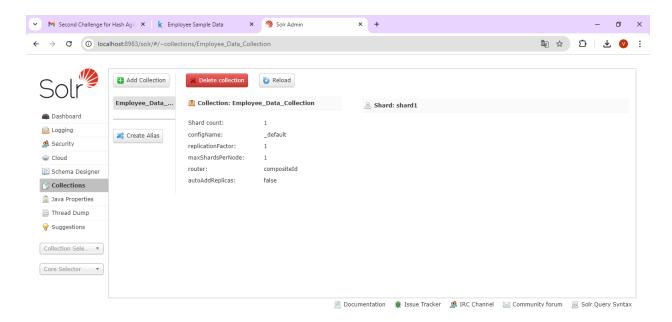
C:\Users\User>_
```

Step 4: Open Comment line interface and redirect to the Solr directory and start Apache Solr server.

Comment Line: solr start -c

<u>Step 5:</u> Now you can see the solr server is running on port no localhost: 8983 redirect to the host and you will see the admin pannel.





Step 6: Lets get start to indexing the Employee Data on Solr.

(i) Create a collection using comment line

Example: solr create -c Employee_Data_collection

```
Microsoft Windows (Version 10.0.19085.4291)
(c) Microsoft Composation. All rights reserved.

C:\Users\Users\Users\Users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\users\under\under\under\under\under\under\users\under\under\under\under\under\under\under\under\under\undern
```

(ii) Now indexing our employee data to a solr Employee_Data_collection using comment line.

Example: curl -X POST http://localhost:8983/solr/Employee_Data_collection/update/csv?commit=true" -H "Content-Type: text/csv" -data-binary @"C:/Employee Data.csv"

```
"Department":[TII"],
"Gender1:[Male"],
"Ethnicity:["Asian"],
"Agg [13],
"City:["Shinghai"],
"City:["Shinghai"],
"City:["Shinghai"],
"Id:"OcS2a23-a00a-4788-99f3-dff47329967",
"Employee_DI':["Comport Administrator"],
"No lite:["Hectwork Administrator"],
"Hire_Date:"["17/24/2010"],
"Annual_Slany:"["533,76"],
"Annual_Slany:"["533,76"],
"Onsus_:"["0%],
"version_":IslB2351654318816),

[Department":[[III],
"Gender:"["Female"],
"Ethnicity:"["tatino"],
"Age:[39],
"Country:"["United States"],
"City:["Seatter] & 450-831-022575a201c",
"Employee_DI':["Explose]
"Full Name: ["Harper castillo"],
"30b_Title:"["IT Systems Architect"],
"Business_Unit:"["Comporate"],
"Hire_Date:"["477/2038],
"Annual_Sings_"["Seade:],
"City:"["sings_"],
"Country:"["Inited States"],
"City:"["sings_"],
"Country:"["Inited States"],
"City:"["Austini"],
"Gender:"["Femaler],
"Country:"["sings_"],
"Gender:"["Femaler],
"City:"["Austini"],
"Gender:"["Femaler],
"Country:"["Inited States"],
"City:"["Austini"],
"Gender:"["Femaler],
"Gender:"["Gender:"],
"Gender:"["],
"Gender:"["Gender:"],
"Gender:"["],
"
```

```
"Hire Date";["4/8/2865"],
"Annual_Salay";["5x87",539"],
"Bonus_";["2x8"],
"_everion_':181182351856093248],

["Department":["III"],
"Gender":["Mile"],
"Country";["Inited States"],
"City':["Inheanix"],
"id":"38767466-a64e-42cc-91a-11065b3c2f64",
"Employee_1D:"["F00000"],
"Full Name:["["Eara Wu"],
"Dob_Title:"["Heurok Administrator"],
"Business_Unit":["Haurufacturing"),
"Annual_Salay":["66,227"],
"Bonus_":["687,227"],
"Bonus_":["687,227"],
"Everion_:islisi335188315556),

["Department":["Accounting"],
"centry:"["Changaing"],
"Country:"["Changaing"],
"Country:"["Changaing:"["Changaing:"["Changaing:"["Changaing:"["Changaing:"["Changaing:"["Changaing:"["Changaing:"["Changaing:"["Changaing:"["Changaing:"["Changaing:"["Changaing:"["Changaing:"["
```

```
"id":"9al4f68a-lebe-4dd9-98bf-43e9683e675b",
"Employee_ID":["E02080"],
"Full Name:["Alles Chang],
"Dollite: ["Annath III]",
"Hit Public Chang ("Annath III]",
"Hit Public Chang ("Annath III]",
"Hit Public Chang ("Annath III]",
"Annual Salary":["589,674 "],
"Bount = "["6\forall "],
"County":["589,674 "],
"Boant = "["6\forall "],
"Gonder":["Feastle"],
"County":["United States"],
"Cutty":["Seattle"],
"Cutty":["Seattle"],
"Id":"GonderBasa-Gobe-3d6-93f6-80alfa3226cc",
""Full Name:"["Seattle"],
"Business_Unit:["Mannathuring"],
"Business_Unit:["Mannathuring"],
"Hite Date:["9/9/2011"],
"Annual_Salary":["597,630 "],
"Boons_"["6\forall "],
"Cutty":["Gonder"],
"Business_Unit:["Seattle"],
"Cutty":["Seattle"],
"Cutty":["Seattle"],
"Gonder":["Male"],
"Cutty":["Seattle"],
"Gonder":["Male"],
"Gonder":["Male"],
"Cutty":["Gonder"],
"Gonder":["Male"],
"Cutty":["Gonder"],
"Gonder":["Male"],
"Cutty":["Gonder"],
"Gonder":["Male"],
"Go
```

Retrive the only the male candidate using comment line

Example:curl http://localhost:8983/solr/Employee_Data_Collection/select?q=Gender:Male&wt=json"

```
| "Department":["II"],
    "Gende":["Make"],
    "thin (LTY):["Asian"],
    "ago:[13:]"[Shaipait],
    "dity:[Shaipait],
    "dity:[Shaipait],
    "dity:[Shaipait],
    "dity:[Shaipait],
    "thin (Sc.22a23.a00a.4758.9967.d1f247229967",
    "Employee_Dity:["Cameron Lo"],
    "pull Name:"["Cameron Lo"],
    "thin Date:["12/24/2010"],
    "annual_slamy:["Shaiyait],
    "annual_slamy:["Shaiyait],
    "annual_slamy:["Shaiyait],
    "monus_:["Vil"],
    "conder:["Nale"],
    "conder:["Nale"],
    "conder:["Nale"],
    "conder:["Nale"],
    "conder:["Nale"],
    "conder:["Nale"],
    "conder:["Nale"],
    "thin : 29672400 adds 40.4 26.0 106.5106.2764",
    "usi: 29672400 adds 40.4 26.0 106.5106.706.706",
    "usi: 29672400 adds 40.4 26.0 106.5106.706.706",
    "usi: 29672400 adds 40.4 26.0 106.5106.706.706",
    "usi: 29672400 adds 40.4 26.0 106.5106.706",
    "usi: 29672400 adds 40.4 26.0 20.7 1,
    "uni: 2967240 adds 40.4 20.7 1,
    "uni: 2967240 adds 4
```

```
C:\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Use
```

```
"Business Unit": ["Comporate"]
"Annual_Salary: ["566,674"],
"Benus: ["60%],
"version_:18182351128084192),

"Department": ["Finance"],
"Gender: ["Male"],
"Gender: ["Male"],
"Country: ["United States"],
"Cuty: ["Niamal],
"Interview of the states of the sta
```

Retrive the specific filed using comment line

Example: curl http://localhost:8983/solr/Employee_Data_Collection/select?q=Department:IT&wt=json

```
s\User>curl "http://localhost:8983/solr/Employee_Data_Collection/select?q=Department:IT&wt=json"
onse: { Numbound: 1894, start 18, numbound: Natt 18
                                          "_version_":1811823510559916932},

"Department":["II"],
"Gender":["Male"],
"Ethnicity":["Msian"],
"Age":[62],
"Country":["United States"],
"City":["Phoenix"],
"id1":"36767dd6-a64e-42cc-91a6-11065b3c2f64",
"Employee ID":["E020807"],
"Job Title":["Network Administrator"],
"Business_Unit":["Maundacturing"],
"Hire_Date":["4/22/20404"],
"Annual_Salary":["$66,227 "],
"Bonus_":["6%"],
"Exit_Date":["4/1/4/2014"],
"_version_":1811823511083155456},
                                          "_version_":1811823511083155456),

"Department":["IT"],
"Genden":["Female"],
"Ethnicity":["Caucasian"],
"Age":[38],
"Country":["United States"],
"City:["Seattle"],
"City:["Seattle"],
"Gi":Ga09833-680e-4acb-93f6-80a1fa3226cc",
"Employee_ID':["E02010"],
"Full Name":["Gianna Holmes"],
"Job_Title":["System Administratore"],
"Business_Unit':["Manufacturing"],
"Hire Date":["95/2011"],
"Annual_Salary':["597,630 "],
"Bonus._":["08"],
"version_":1811823511123001344),
"Department":["IT"]
                                            "Department":["II"],

"Gender":["Male"],

"Ethnicity":["Latino"],

"Age":[49],

"Country":["United States"],

"City":["Miani"],

"id":"706f433c-1488-4950-8c7b-baae8cefe29b",

"Employee ID":["E02012"],

"Full Name":["Jameson Pena"],

"Job_ Title":["Systems Analyst"],

"Business Unit":["Manufacturing"],
```

```
"_version_":1811823511195353088},

"Department":["I""],
"Genden":[Female"],
"Ethnicity":["Asian"],
"Age":[62],
"Gountry":[United States"],
"City:["Miami"],
"di":lafabace-9bd0-4b7c-8a82-0915022dc4e1",
"Employee_ID":["62021"],
"Full Name":["Luna Lu"],
"Job_Title":["LIT Systems Architect"],
"Business_Unit':["Corporate"],
"Hire Date":["7/26/1997"],
"Annual_Salary:["964,208"],
"Bonus_":["08"],
"Lension_":1811823511227858944},
"Department":["II"]
"_version_":1811823511260364800},

"Department":["IT"],
"Gender":["Female"],
"Ethnicity":["Black"],
"Age":[43],
"Gountry":["United States"],
"Gity":["Phoenix"],
"id":"7722c34-dd64-4924-99C5-b7070eee941f",
"Employee_ID':["E02023"],
"Employee_ID':["E02023"],
"Full Name":["illian Levis"],
"Job_Title":["Iechnical Architect"],
"Business_Unit":["Research & Development"],
"Hire_Date":["8/14/2013"],
"Annual_Salary":["83,323"],
"Bonus_":["0%"],
"Exit_Date":["3/31/2019"],
"version_":1811823511260364803},
"Dagartment":[IT"]
```

Successfully indexed employee data in the Solr employee data collection.