# 5. SYSTEM DESIGN & DEVELOPMENT

5.1 SQL Database and Table Format Used :-

```
mysql> desc subscriber_identity_details;
  Field
                      | Null | Key | Default
            Type
                                               Extra
            int(11)
  IMSI No
                       YES
                                     NULL
  MCC
            int(11)
                       YES
                                     NULL
            int(11)
 MSIN No
                       YES
                                     NULL
  ICCID
            char(15)
                       YES
                                     NULL
  subs_Id
          char(20)
                       YES
                                     NULL
5 rows in set (0.02 sec)
```

```
mysql> desc subscriber identity details;
  Field
                       Null
                               Key | Default
            Type
                                               Extra
  IMSI No
            int(11)
                       YES
                                     NULL
  MCC
            int(11)
                        YES
                                     NULL
 MSIN No
            int(11)
                       YES
                                     NULL
  ICCID
            char(15)
                       YES
                                     NULL
  subs Id
           char(20)
                       YES
                                     NULL
5 rows in set (0.02 sec)
```

# 5.2Tables Used :-

# Subscriber Detail Table

All Subscribers								
				Service_Provider				
9	10AB1	Aarush		Jio	4G			
1	10AC1	Randhir		VI	5G			
2	10AD1	Manas	74838343	BSNL	3G			
3	10AE1	Shubham		Jio	5G			
4	10AF1	Mridul		VI	4G			
5	10AG1	Prashant		BSNL	4G			
6	10AH1	Aman		Jio	5G			
7	10AI1		74838348	VI	4G			
8	10AJ1	Ayush		Jio	5G			
9	10AK1	ansh		BSNL	5G			
10	10AL1	Ritam		Jio	5G			
11	10AM1	Rakshita	74838352	VI	4G			
12	10AN1	Sakshi	74838353	BSNL	4G			
13	10A01	Neha	74838354	Jio	5G			
14	10AP1	Arpita	74838355	VI	4G			
15	10AQ1	Suprabhat	74838356	VI	5G			
16	10AR1	Rachna	74838357	Jio	5G			
17	10AS1	Anurag	74838358	VI	5G			
18	10AT1	Tanay	74838359	Jio	5G			
19	10AU1	Shishr	74838360	BSNL	3G			
20	10AV1	Himanshu	74838361	Jio	4G			
21	10AW1		74838362	VI	3G			
22	10AX1	Divyansh	74838363	BSNL	3G			
23	10Ay1	Harshit	74838364	BSNL	3G			
24	10AZ1	Om Kr.	74838365	Jio	5G			
25	10BA1	Shivam	74838366	BSNL	3G			
26	10881	Shanvi	74838367	VI	4G			
27	10BC1	Abhinav	74838368	VI	5G			
28	10BD1	Aradhya	74838369	VI	4G			
29	10BE1	Suruti	74838370	BSNL	3G			

Tde	ntiy Deta	ilc			
Iuc	IMSI No		MSIN No	ICCID	Subs ID
0	7686		7686566		10AB1
1	7687	565	7688565	768756501	10AC1
2	7688	566	7688566	768856601	10AD1
2 3	7689	565	7689565	768956501	10AE1
4 5 6 7	7690	566	7689566	769056601	10AF1
5	7691	566	7691566	769156601	10AG1
6	7692	565	7692565	769256501	10AHI
7	7693	565	7693565	769356501	10AI1
8	7694	565	7694565	769456501	10AJ1
9	7695	566	7695566	769556601	10AK1
10	7696	565	7696565	769656501	10AL1
11	7697	566	7697566	769756601	10AM1
12	7698	566	7698566	769856601	10AN1
13	7699	565	7699565	769956501	10A01
14	7701	565	7701565	770156501	10AP1
15	7702	566	7702566	770256601	10AQ1
16	7703	566	7703566	770356601	10AR1
17	7704	566	7704566	770456601	10AS1
18	7705	566	7705566	770556601	10AT1
19	7706	565	7706565	770656501	10AU1
20	7707	566	7707566	770756601	10AV1
21	7708	566	7708566	770856601	10AW1
22	7709	565	7709565	770956501	10AX1
23	7710	565	7710565	771056501	10AY1
24	7711	566	7711565	771156501	10AZ1
25	7712	566	7712566	771256601	10BA1
26	7713	565	7713565	771356501	10881
27	7714	565	7714565	771456501	10BC1
28	7715	565	7715565		10BD1
29	7716	566	7716566	771656601	10BE1

9

### 5.4 Output

## **Welcome Page**

```
------[Welcom TO TRAI(Telecom Regulatory Authority Of India)]------[Welcom TO TRAI(Telecom Regulatory Authority
 nter Username:mridul
Enter Password: 100
All Subscribers
  Subs_Id Registerd_Name
                            Ph_No Service_Provider Network_Type
                 Aarush 74838341
    10AC1
                 Randhir
                          74838342
                  Manas
    10AD1
                         74838343
    10AF1
                 Shubham 74838344
    10AF1
                 Mridul
                         74838345
    10AG1
                Prashant
                         74838346
    10AH1
                         74838347
                                                             5G
                   Aman
                                               Jio
    19AT1
               Divyansh 74838348
    10AJ1
                   Ayush 74838349
    10AK1
                         74838350
    10AL1
                  Ritam 74838351
                                               Jio
    10AM1
                Rakshita 74838352
    10AN1
                 Sakshi 74838353
    10A01
                   Neha 74838354
    10AP1
                 Arpita 74838355
               Suprabhat 74838356
    10A01
                                                             5G
    10AR1
                 Rachna 74838357
    10AS1
                 Anurag
                         74838358
    10AT1
                         74838359
                  Tanay
                 Shishr
                         74838360
    10AU1
                                              BSNL
    10AV1
                Himanshu
                         74838361
                                               Jio
    10AW1
               Uthkarsh 74838362
    10AX1
                          74838363
                Divyansh
    10Ay1
                 Harshit 74838364
                                              BSNL
    10AZ1
                 Om Kr. 74838365
                                               Jio
    10RA1
                 Shivam
                         74838366
    10BB1
                 Shanvi 74838367
                 Abhinav
                         74838368
    10BD1
                 Aradhya 74838369
```

```
MSIN No
                                                  7686566
7688565
                                                                           768656601
768756501
                                                                                                             10AB1
10AC1
                                                  7688566
7689565
                                                                           768856601
768956501
                                                                                                             10AD1
                   7690
7691
7692
7693
                                    566
566
                                                  7689566
7691566
                                                                            769056601
769156601
                                                                                                             10AF1
                                                                                                             10AG1
                                    565
565
                                                  7692565
7693565
                                                                           769256501
769356501
                                                                                                             10AHI
10AI1
                   7694
7695
7696
7697
7698
7699
                                                  7694565
7695566
                                                                           769456501
769556601
                                                                                                             10AJ1
10AK1
                                    565
                                    566
                                                  7696565
7697566
                                                                            769656501
769756601
                                                                                                             10AL1
10
11
13
14
15
16
17
18
                                    565
                                    566
                                    566
565
                                                  7698566
7699565
                                                                           769856601
769956501
                                                                                                             10AN1
                                                 7699565
7701565
7702566
7703566
7704566
7705566
7706565
7709565
7710565
7712565
7712565
7712565
7713565
7714565
                                                                                                             10A01
                   7701
7702
7703
7704
7705
7706
7707
7708
7710
7711
7712
7713
7714
7715
                                                                           770156501
770256601
                                                                                                             10AP1
                                    565
                                    566
                                    566
566
                                                                           770356601
770456601
                                                                                                             10AR1
                                                                           770556601
770656501
                                                                                                             10AT1
                                    566
                                    565
20
21
22
23
                                                                           770756601
770856601
770956501
771056501
                                    566
                                                                                                             10AV1
                                    566
                                                                                                             10AW1
                                    565
565
                                                                                                             10AX1
10AY1
24
25
                                                                            771156501
771256601
                                    566
                                    566
                                                                                                             10BA1
                                                                           771356501
771456501
771556501
26
27
                                                                                                             10881
                                    565
                                                                                                             10BC1
         ----- MAIN MENU-
Enter 1 - To
Enter 2 - To
Enter 3 - To
Enter 4 - To
Enter 5 - To
Enter 6 - To
Enter 7 - To
                                   Add/Update Subscriber
Add/Update Identiy Details
View Details(Basic and Identity)
Remove Subscribers
   nter 4 - 10 Kemove Subscribers
nter 5 - To Sort Basic Details
nter 6 - To Sort Identity Details
nter 7 - To View Details By First letter of Name
nter 8 - To View Details(Top and Bottom)
lease Select An Above Option:
```



### 1 – Adding Details

```
-----MAIN MENU-----
Enter 1 - To Add/Update Subscriber
Enter 2 - To Add/Update Identiy Details
Enter 3 - To View Details(Basic and Identity)
Enter 4 - To Remove Subscribers
Enter 5 - To Sort Basic Details
Enter 6 - To Sort Identity Details
Enter 7 - To View Details By First letter of Name
Enter 8 - To View Details(Top and Bottom)
Please Select An Above Option: 1
Choose Option
1 - Add subscriber
2 - Update Subscriber Detail
Enter Your Choice:1
Enter Assigned ID:10BF1
Enter Name:Harsh
Enter Ph_no:74838371
Enter Network Provider Name:BSNL
Enter Network Type:3G
Successfully Added
You want to continue Y/N :
```

#### Successfully Added

30	10BF1	Harsh 7483837	1 BSNL	3G

### 2 – Updating Details

```
-----
 -------MAIN MENU---------
Enter 1 - To Add/Update Subscriber
Enter 2 - To Add/Update Identiy Details
Enter 3 - To View Details(Basic and Identity)
Enter 4 - To Remove Subscribers
Enter 5 - To Sort Basic Details
Enter 6 - To Sort Identity Details
Enter 7 - To View Details By First letter of Name
Enter 8 - To View Details(Top and Bottom)
Please Select An Above Option: 1
Choose Option
1 - Add subscriber
2 - Update Subscriber Detail
Enter Your Choice:2
Enter New Name No:Samridhi
Enter New Network Provider No:Jio
Enter New Network Type:4G
Enter ID on which you have to update :10BF1
Successfully Updated
You want to continue Y/N :_
```

#### Successfully Updated

30 10BF1 Samridhi 74838371 Jio 4G



### 3 - Viewing Details

#### a) Basic Details By ID

```
-----MAIN MENU------
Enter 1 - To Add/Update Subscriber
Enter 2 - To Add/Update Identiy Details
Enter 3 - To View Details(Basic and Identity)
Enter 4 - To Remove Subscribers
Enter 5 - To Sort Basic Details
Enter 6 - To Sort Identity Details
Enter 7 - To View Details By First letter of Name
Enter 8 - To View Details(Top and Bottom)
Please Select An Above Option: 3
Choose Option
1 - To View Basic Details of Subscribers
2 - To View IDentity Details of Subscribers
Enter your Choice:1
Choose Search Criteria:
1-ID
2-Name
3-Ph No
Enter your choice:1
Enter Subs_ID:10BF1
The Subscriber Detail are as follows
                              Ph No Service Provider Network Type
  Subs_Id Registered_Name
                 Samridhi 74838371
    10BF1
```

#### b) Basic Details by Name

```
-----MAIN MENU------
Enter 1 - To Add/Update Subscriber
Enter 2 - To Add/Update Identiy Details
Enter 3 - To View Details(Basic and Identity)
Enter 4 - To Remove Subscribers
Enter 5 - To Sort Basic Details
Enter 6 - To Sort Identity Details
Enter 7 - To View Details By First letter of Name
Enter 8 - To View Details(Top and Bottom)
Please Select An Above Option: 3
Choose Option
1 - To View Basic Details of Subscribers
2 - To View IDentity Details of Subscribers
Enter your Choice:1
Choose Search Criteria:
1-ID
2-Name
3-Ph No
Enter your choice:2
Enter name:Anurag
The Subscriber Detail are as follows
 Subs_Id Registered_Name
                            Ph No Service Provider Network Type
                  Anurag 74838358
   10AS1
You want to continue Y/N :_
```



#### c) Basic Details by Ph No

```
-----MAIN MENU-------
Enter 1 - To Add/Update Subscriber
Enter 2 - To Add/Update Identiy Details
Enter 3 - To View Details(Basic and Identity)
Enter 4 - To Remove Subscribers
Enter 5 - To Sort Basic Details
Enter 6 - To Sort Identity Details
Enter 7 - To View Details By First letter of Name
Enter 8 - To View Details(Top and Bottom)
Please Select An Above Option: 3
Choose Option
1 - To View Basic Details of Subscribers
2 - To View IDentity Details of Subscribers
Enter your Choice:1
Choose Search Criteria:
1-ID
2-Name
3-Ph_No
Enter your choice:3
Enter Ph No:74838360
The Subscriber Detail are as follows
 Subs_Id Registered_Name Ph_No Service_Provider Network_Type
                Shishr 74838360
You want to continue Y/N :
```

#### d) Identity Details

```
-----MAIN MENU-----
Enter 1 - To Add/Update Subscriber
Enter 2 - To Add/Update Identiy Details
Enter 3 - To View Details(Basic and Identity)
Enter 4 - To Remove Subscribers
Enter 5 - To Sort Basic Details
Enter 6 - To Sort Identity Details
Enter 7 - To View Details By First letter of Name
Enter 8 - To View Details(Top and Bottom)
Please Select An Above Option: 3
Choose Option
1 - To View Basic Details of Subscribers
2 - To View IDentity Details of Subscribers
Enter your Choice:2
Choose Search Criteria:
1-ID
2-MCC
Enter Your Choice:1
Enter Subs ID:10AF1
Subscriber Identity Detials are as follows:
  IMSI_No MCC MSIN_No ICCID Subs_ID
7690 566 7689566 769056601 10AF1
You want to continue Y/N :
```



### 4 - Removing Subscriber

```
Enter 1 - To Add/Update Subscriber
Enter 2 - To Add/Update Identiy Details
Enter 3 - To View Details(Basic and Identity)
Enter 4 - To Remove Subscribers
Enter 5 - To Sort Basic Details
Enter 6 - To Sort Identity Details
Enter 7 - To View Details By First letter of Name
Enter 8 - To View Details(Top and Bottom)
Please Select An Above Option: 4
Enter the ID of Subscriber to be deleted:10BE1
Successfully Deleted
You want to continue Y/N :
```

### 5 - Sorting Basic Details

### a) By Name

```
-----MAIN MENU------
Enter 1 - To Add/Update Subscriber
Enter 2 - To Add/Update Identiy Details
Enter 3 - To View Details(Basic and Identity)
Enter 4 - To Remove Subscribers
Enter 5 - To Sort Basic Details
Enter 6 - To Sort Identity Details
Enter 7 - To View Details By First letter of Name
Enter 8 - To View Details(Top and Bottom)
Please Select An Above Option: 5
Enter Your choice:
1 : By Name
2 : By Id
 : By Networ Type
Enter Your Choice:1
  Subs_ID Registered_name
                               Ph_No Service_Provider Network_Type
    10AB1
                   Aarush 74838341
                   Abhinav 74838368
     10BC1
                                                    VT
     10AH1
                            74838347
                            74838350
                                                                 5G
     10AK1
                                                  BSNL
                     ansh
     10AS1
                   Anurag
                            74838358
     10BD1
                   Aradhya
                            74838369
                                                                 4G
     10AP1
                            74838355
                   Arpita
                                                                 4G
     10AJ1
                     Ayush
                            74838349
                                                   Jio
                                                                 5G
     10AX1
                  Divyansh
                                                  BSNL
                                                                 3G
                            74838363
     10AI1
                  Divyansh
                            74838348
                                                                 4G
                  Harshit
                            74838364
                                                  BSNL
     10Ay1
     10AV1
                                                   Jio
11
                 Himanshu
                            74838361
     10AD1
                    Manas
                            74838343
                                                  BSNL
                                                                 3G
13
     10AF1
                    Mridul
                            74838345
                                                                 4G
14
     10A01
                     Neha
                                                   Jio
                                                                 5G
                            74838354
                    Om Kr.
16
     10AG1
                  Prashant
                                                  BSNL
                                                                 4G
                            74838346
17
     10AR1
                   Rachna
                            74838357
                                                   Jio
                                                                 5G
                  Rakshita
                            74838352
                                                                 4G
19
                                                    VI
     10AC1
                            74838342
                                                                 5G
                   Randhir
20
     10AL1
                    Ritam 74838351
                                                   Jio
                                                                 5G
     10AN1
                    Sakshi
                                                  BSNL
                                                                 4G
                            74838353
                   Shanvi
                            74838367
                                                                 4G
     10BB1
     10AU1
                   Shishr
                            74838360
                                                  BSNL
                    Shivam
                                                                  3G
     10BA1
                            74838366
                                                  BSNL
     10AE1
                  Shubham
                            74838344
                                                   Jio
                                                                 5G
     10AQ1
                 Suprabhat
                            74838356
                                                                 5G
                                                  BSNL
                                                                 3G
     10BE1
                    Suruti
                            74838370
     10AT1
                     Tanay
                            74838359
     10AW1
                 Uthkarsh
                            74838362
You want to continue Y/N :
```



### b) by ID

```
-----MAIN MENU------
Enter 1 - To Add/Update Subscriber
Enter 2 - To Add/Update Identiy Details
Enter 3 - To View Details(Basic and Identity)
Enter 4 - To Remove Subscribers
Enter 5 - To Sort Basic Details
Enter 6 - To Sort Identity Details
Enter 7 - To View Details By First letter of Name
Enter 8 - To View Details(Top and Bottom)
Please Select An Above Option: 5
Enter Your choice:
1 : By Name
2 : By Id
3 : By Networ Type
Enter Your Choice:2
  Subs_ID Registered_name
                               Ph_No Service_Provider Network_Type
     10AB1
                    Aarush
                           74838341
     10AC1
                            74838342
                                                   VI
                   Randhir
     10AD1
                     Manas 74838343
                                                  BSNL
     10AE1
                   Shubham 74838344
                                                   Jio
     10AF1
                   Mridul 74838345
                                                   VI
     10AG1
                  Prashant 74838346
                                                  BSNL
     10AH1
                      Aman 74838347
                                                  Jio
                                                                 5G
     10AI1
                  Divyansh 74838348
                                                   VI
                                                                 4G
                                                  Jio
                                                                 5G
     10AJ1
                     Ayush 74838349
                                                                 5G
     10AK1
                     ansh 74838350
                                                  BSNL
10
    10AL1
                     Ritam 74838351
                                                  Jio
                                                                 5G
11
    10AM1
                 Rakshita 74838352
                                                   VI
                                                                 4G
12
     10AN1
                   Sakshi 74838353
                                                  BSNL
                                                                 4G
13
     10A01
                     Neha 74838354
                                                  Jio
                                                                 5G
14
     10AP1
                    Arpita 74838355
                                                                 4G
                                                   VI
15
                                                                 5G
     10AQ1
                 Suprabhat 74838356
                                                   VI
16
                                                                 5G
     10AR1
                   Rachna 74838357
                                                   Jio
17
                                                                 5G
     10AS1
                    Anurag 74838358
                                                   VI
18
     10AT1
                                                   Jio
                                                                 5G
                    Tanay 74838359
19
     10AU1
                    Shishr
                            74838360
                                                  BSNL
                                                                 3G
20
     10AV1
                 Himanshu 74838361
                                                   Jio
                                                                 4G
21
     10AW1
                 Uthkarsh 74838362
                                                                 3G
                                                   VI
22
     10AX1
                 Divyansh 74838363
                                                  BSNL
                                                                 3G
23
     10Ay1
                  Harshit
                            74838364
                                                  BSNL
                                                                 3G
                   Om Kr.
24
     10AZ1
                            74838365
                                                  Jio
                                                                 5G
25
     10BA1
                    Shivam
                            74838366
                                                  BSNL
                                                                 3G
26
                    Shanvi
     10BB1
                            74838367
                                                    VI
                                                                 4G
27
                   Abhinav
                            74838368
                                                    VI
     10BC1
                                                                 5G
28
                   Aradhya
                            74838369
                                                    VI
     10BD1
You want to continue Y/N :_
```

### c) By Network Type

```
-MAIN MENU----
Enter 1 - To Add/Update Subscriber
Enter 2 - To Add/Update Identiy Details
Enter 3 - To View Details(Basic and Identity)
Enter 4 - To Remove Subscribers
Enter 5 - To Sort Basic Details
Enter 6 - To Sort Identity Details
Enter 7 - To View Details By First letter of Name
Enter 8 - To View Details(Top and Bottom)
Please Select An Above Option: 5
Enter Your choice:
1 : By Name
2 : By Id
3 : By Networ Type
Enter Your Choice:3
                                Ph_No Service_Provider Network_Type
   Subs_ID Registered_name
                                                    BSNL
     10AX1
                   Divyansh
                             74838363
     10AD1
                      Manas
                             74838343
                                                    BSNL
                                                                    3G
     10BA1
                     Shivam
                             74838366
                                                    BSNL
                                                                    3G
                    Harshit
     10Ay1
                             74838364
                                                    BSNL
                                                                    3G
     10AU1
                     Shishr
                             74838360
                                                    BSNL
                                                                    3G
                   Uthkarsh
                             74838362
                                                      VI
                                                                    3G
     10AW1
                     Arpita
                                                      VI
                                                                    4G
     10AP1
                             74838355
     10AV1
                   Himanshu
                             74838361
                                                     Jio
                                                                    4G
                                                     Jio
     10AB1
                     Aarush
                             74838341
                                                      VI
     10BB1
                     Shanvi
                             74838367
                                                                    4G
10
     10AN1
                     Sakshi
                             74838353
                                                    BSNL
                                                                    4G
11
                   Rakshita
                            74838352
                                                                    4G
     10AM1
                                                      VI
12
     10BD1
                    Aradhya
                            74838369
                                                      VI
                                                                    4G
13
                     Mridul
                                                                    4G
     10AF1
                             74838345
                                                      VI
14
                   Prashant
                                                    BSNL
     10AG1
                             74838346
                                                                    4G
15
     10AI1
                   Divyansh
                            74838348
                                                      VI
                                                                    4G
16
                     Rachna
                             74838357
                                                     Jio
                                                                    5G
     10AR1
17
     10BC1
                    Abhinav
                             74838368
                                                      VI
                                                                    5G
18
                                                      VI
                                                                    5G
     10AC1
                    Randhir
                             74838342
19
     10AE1
                    Shubham
                            74838344
                                                     Jio
                                                                    5G
20
     10AZ1
                     Om Kr.
                             74838365
                                                     Jio
                                                                    5G
21
     10A01
                       Neha
                             74838354
                                                     Jio
                                                                    5G
22
     10AK1
                       ansh
                            74838350
                                                    BSNL
                                                                    5G
23
     10AH1
                       Aman
                             74838347
                                                     Jio
                                                                    5G
24
                                                      VI
                                                                    5G
     10A01
                  Suprabhat
                             74838356
25
     10AJ1
                                                     Jio
                                                                    5G
                      Ayush
                             74838349
26
     10AT1
                      Tanay
                             74838359
                                                     Jio
                                                                    5G
27
     10AS1
                     Anurag
                             74838358
                                                      VI
                                                                    5G
28
     10AL1
                      Ritam
                             74838351
                                                     Jio
You want to continue Y/N :
```

### 6 - Sorting Identity Details

```
-----
     -----MAIN MENU------
Enter 1 - To Add/Update Subscriber
Enter 2 - To Add/Update Identiy Details
Enter 3 - To View Details(Basic and Identity)
Enter 4 - To Remove Subscribers
Enter 5 - To Sort Basic Details
Enter 6 - To Sort Identity Details
Enter 7 - To View Details By First letter of Name
Enter 8 - To View Details(Top and Bottom)
Please Select An Above Option: 6
    IMSI No
             MCC
                  MSIN No
                                ICCID Subs ID
       7686
             566
                  7686566
                            768656601
                                        10AB1
       7687
             565
                  7688565
                            768756501
                                        10AC1
       7688
             566
                  7688566
                            768856601
                                        10AD1
       7689
             565
                  7689565
                            768956501
                                        10AE1
       7690
             566
                  7689566
                           769056601
                                        10AF1
       7691
             566
                  7691566
                            769156601
                                        10AG1
       7692
             565
                  7692565
                            769256501
                                        10AHI
       7693
             565
                  7693565
                            769356501
                                        10AI1
                            769456501
       7694
             565
                  7694565
                                        10AJ1
       7695
             566
                  7695566
                            769556601
                                        10AK1
10
       7696
             565
                  7696565
                            769656501
                                        10AL1
11
       7697
             566
                  7697566
                            769756601
                                        10AM1
             566
12
       7698
                  7698566
                            769856601
                                        10AN1
13
       7699
             565
                  7699565
                            769956501
                                        10A01
14
       7701
             565
                  7701565
                            770156501
                                        10AP1
15
       7702
             566
                  7702566
                            770256601
                                        10AQ1
16
       7703
             566
                  7703566
                            770356601
                                        10AR1
17
       7704
             566
                  7704566
                            770456601
                                        10AS1
18
       7705
             566
                  7705566
                            770556601
                                        10AT1
19
       7706
             565
                  7706565
                            770656501
                                        10AU1
20
       7707
                  7707566
                            770756601
             566
                                        10AV1
21
       7708
             566
                  7708566
                            770856601
                                        10AW1
22
       7709
             565
                  7709565
                            770956501
                                        10AX1
23
       7710
             565
                  7710565
                            771056501
                                        10AY1
24
       7711
             566
                  7711565
                            771156501
                                        10AZ1
25
       7712
             566
                  7712566
                            771256601
                                        10BA1
26
       7713
             565
                            771356501
                  7713565
                                        10BB1
27
       7714
             565
                  7714565
                            771456501
                                        10BC1
       7715
             565
                  7715565
                            771556501
                                        10BD1
You want to continue Y/N :
```



### 7 – Retriving Details By First Letter Of Name

```
-----MAIN MENU------
Enter 1 - To Add/Update Subscriber
Enter 2 - To Add/Update Identiy Details
Enter 3 - To View Details(Basic and Identity)
Enter 4 - To Remove Subscribers
Enter 5 - To Sort Basic Details
Enter 6 - To Sort Identity Details
Enter 7 - To View Details By First letter of Name
Enter 8 - To View Details(Top and Bottom)
Please Select An Above Option: 7
Enter First letter of name:a
 Subs_ID Registered_name
                              Ph_No Service_Provider Network_Type
   10AB1
                           74838341
                                                  Jio
    10AH1
                           74838347
                                                  Jio
                                                                 5G
                     Aman
    10AJ1
                    Ayush
                           74838349
                                                  Jio
                                                                 5G
    10AK1
                     ansh
                           74838350
                                                 BSNL
                                                                 5G
    10AP1
                   Arpita
                           74838355
                                                   VI
                                                                 4G
                                                   VI
                                                                 5G
    10AS1
                   Anurag
                           74838358
    10BC1
                  Abhinav
                           74838368
                                                   VI
                                                                 5G
    10BD1
                           74838369
                                                                 4G
                  Aradhya
                                                   VI
You want to continue Y/N :_
```

## 8 – Top And Bottom

## a) Top 5 Data

```
----MAIN MENU-----
Enter 1 - To Add/Update Subscriber
Enter 2 - To Add/Update Identiy Details
Enter 3 - To View Details(Basic and Identity)
Enter 4 - To Remove Subscribers
Enter 5 - To Sort Basic Details
Enter 6 - To Sort Identity Details
Enter 7 - To View Details By First letter of Name
Enter 8 - To View Details(Top and Bottom)
Please Select An Above Option: 8
Choice:
 : from Top
 : from botom
Enter your choice:1
Enter No. of Rows to Display:5
  Subs_ID Registered_name
                                Ph_No Service_Provider Network_Type
                                                                          IMSI_No
                                                                                          MSIN_No
                                                                                                        ICCID Subs_ID
    10AB1
                             74838341
                                                                                                                 10AB1
                                                                                    566
                                                                                          7686566
                                                                                                    768656601
                    Aarush
                                                                              7686
                                                      Jio
    10AC1
                             74838342
                                                                      5G
                                                                              7686
                                                                                    566
                                                                                          7686566
                                                                                                    768656601
                                                                                                                  10AB1
                   Randhir
                                                      VI
    10AD1
                     Manas
                             74838343
                                                     BSNL
                                                                      3G
                                                                              7686
                                                                                    566
                                                                                          7686566
                                                                                                    768656601
                                                                                                                  10AB1
    10AF1
                   Shubham
                             74838344
                                                      Jio
                                                                      56
                                                                              7686
                                                                                    566
                                                                                          7686566
                                                                                                    768656601
                                                                                                                 10AB1
    10AF1
                    Mridul
                             74838345
                                                       VI
                                                                              7686
                                                                                    566
                                                                                          7686566
                                                                                                    768656601
                                                                                                                 10AB1
 ou want to continue Y/N :_
```



#### TRAI (Telecom Regulatory Authority of India) DATA MANAGEMENT

## b) Bottom 5 Data

```
-----MAIN MENU---
Enter 1 - To Add/Update Subscriber
Enter 2 - To Add/Update Identiy Details
Enter 3 - To View Details(Basic and Identity)
Enter 4 - To Remove Subscribers
Enter 4 - To Remove Subscribers
Enter 5 - To Sort Basic Details
Enter 6 - To Sort Identity Details
Enter 7 - To View Details By First letter of Name
Enter 8 - To View Details(Top and Bottom)
Please Select An Above Option: 8
Choice:
 : from Top
: from botom
Enter your choice:2
Enter No. of Rows to Display:5
     Subs_ID Registered_name
                                        Ph_No Service_Provider Network_Type
                                                                                        IMSI_No MCC
                                                                                                          MSIN_No
                                                                                                                          ICCID Subs_ID
                                                                                                   565
565
                                                                                            7715
7715
                                                                                                                     771556501
       10AZ1
                           Om Kr.
                                     74838365
                                                                                                          7715565
                                                                                                                                     10BD1
       10BA1
                           Shivam
                                     74838366
                                                                                                                                     10BD1
837
                                                                                                                     771556501
                                                                                            7715
7715
       10BB1
                           Shanvi
                                     74838367
                                                                                                          7715565
                                                                                                                     771556501
                                                                                                                                     10BD1
       10BC1
                         Abhinav
                                     74838368
                                                                                                                     771556501
                                                                                                                                     10BD1
       10BD1
                         Aradhya
                                     74838369
                                                                                                          7715565
                                                                                                                     771556501
                                                                                                                                     10BD1
You want to continue Y/N :_
```