query = """

select 'IPTV' as Service, count(distinct acct\_nbr) as Total\_Accounts

from slsdceviews.prd\_acct\_fct

where 1=1

and acct\_nbr is not null

and acct\_actvtn\_dt<=LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1

and acct\_datvtn\_dt>'"""+str(end\_date)+"""'

and prd\_subsrptn\_actvtn\_dt<=LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1

and prd\_subsrptn\_datvtn\_dt>'"""+str(end\_date)+"""'

and prd\_desc in ('IPTV','IPTV\_OOF')

and lblty in ('CON','IRU')

and bill\_sys\_geo\_id = 24

"""

td\_df = spark.read.format("jdbc").options(\*\*tdOptions).option("query", query).load()

df\_iptv = td\_df.toPandas()

query = """

select 'IPBB' as Service,count(distinct acct\_nbr) as Total\_Accounts

from slsdceviews.prd\_acct\_fct

where 1=1

and acct\_nbr is not null

and acct\_actvtn\_dt<=LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1

and acct\_datvtn\_dt>'"""+str(end\_date)+"""'

and prd\_subsrptn\_actvtn\_dt<=LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1

and prd\_subsrptn\_datvtn\_dt>'"""+str(end\_date)+"""'

and prd\_desc in ('IPBB','IPBB\_OOF')

and lblty in ('CON','IRU')

and bill\_sys\_geo\_id = 24

"""

td\_df = spark.read.format("jdbc").options(\*\*tdOptions).option("query", query).load()

df\_ipbb = td\_df.toPandas()

query = """

select 'Legacy' as Service,count(distinct acct\_nbr) as Total\_Accounts

from slsdceviews.prd\_acct\_fct

where 1=1

and acct\_nbr is not null

and acct\_actvtn\_dt<=LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1

and acct\_datvtn\_dt>'"""+str(end\_date)+"""'

and prd\_subsrptn\_actvtn\_dt<=LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1

and prd\_subsrptn\_datvtn\_dt>'"""+str(end\_date)+"""'

and prd\_desc in ('DSL','DSL, POTS','POTS')

and bill\_sys\_geo\_id in (13,27,29,31)

"""

td\_df = spark.read.format("jdbc").options(\*\*tdOptions).option("query", query).load()

df\_legacy = td\_df.toPandas()

query = """

select 'Wireless Local Loop' as Service,count(distinct acct\_nbr) as Total\_Accounts

from slsdceviews.prd\_acct\_fct

where 1=1

and acct\_nbr is not null

and acct\_actvtn\_dt<=LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1

and acct\_datvtn\_dt>'"""+str(end\_date)+"""'

and prd\_subsrptn\_actvtn\_dt<=LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1

and prd\_subsrptn\_datvtn\_dt>'"""+str(end\_date)+"""'

and prd\_desc ='WIRLS-FIX'

and lblty in ('CON','IRU')

and bill\_sys\_geo\_id = 24

"""

td\_df = spark.read.format("jdbc").options(\*\*tdOptions).option("query", query).load()

df\_wll = td\_df.toPandas()

query = """

select 'Wireless Postpaid (CON+SIG)' as Service, count(distinct acct\_nbr) as Total\_Accounts

from slsdceviews.prd\_acct\_fct

where 1=1

and acct\_nbr is not null

and acct\_actvtn\_dt<=LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1

and acct\_datvtn\_dt>'"""+str(end\_date)+"""'

and prd\_subsrptn\_actvtn\_dt<=LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1

and prd\_subsrptn\_datvtn\_dt>'"""+str(end\_date)+"""'

and prd\_desc='WIRLS-POST'

and lblty in ('CON','IRU')

and bill\_sys\_geo\_id = 2

"""

td\_df = spark.read.format("jdbc").options(\*\*tdOptions).option("query", query).load()

df\_wls = td\_df.toPandas()

df\_accts=df\_iptv.append([df\_ipbb,df\_legacy,df\_wll,df\_wls])

#print(df\_accts)

query = """

select 'IPTV' as Service, count(distinct sys\_of\_rec\_invrnt\_id) as Registered\_Accounts

from EDWCPRVIEWS.mem\_prof\_hist a --acct\_id

inner join EDWCPRVIEWS.mem\_domn\_avt b on a.domn\_id = b.domn\_id

inner join EDWCPRVIEWS.mem\_srv\_hist c on a.mem\_id = c.mem\_id

inner join EDWCPRVIEWS.mem\_srv\_avt d on c.srv\_id = d.srv\_id

inner join slsdceviews.prd\_acct\_fct e on sys\_of\_rec\_invrnt\_id = e.acct\_nbr

and e.acct\_nbr is not null

and e.acct\_actvtn\_dt<=LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1

and e.acct\_datvtn\_dt>'"""+str(end\_date)+"""'

and e.prd\_subsrptn\_actvtn\_dt<=LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1

and e.prd\_subsrptn\_datvtn\_dt>'"""+str(end\_date)+"""'

and e.prd\_desc in ('IPTV','IPTV\_OOF')

and e.lblty in ('CON','IRU')

and e.bill\_sys\_geo\_id = 24

where a.domn\_id = 15

and mem\_srv\_eff\_dt < LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1

and mem\_srv\_end\_dt >= '"""+str(end\_date)+"""'

and c.srv\_id = 33

"""

td\_df = spark.read.format("jdbc").options(\*\*tdOptions).option("query", query).load()

df\_iptv = td\_df.toPandas()

query = """

select 'IPBB' as Service,count(distinct sys\_of\_rec\_invrnt\_id) as Registered\_Accounts

from EDWCPRVIEWS.mem\_prof\_hist a --acct\_id

inner join EDWCPRVIEWS.mem\_domn\_avt b on a.domn\_id = b.domn\_id

inner join EDWCPRVIEWS.mem\_srv\_hist c on a.mem\_id = c.mem\_id

inner join EDWCPRVIEWS.mem\_srv\_avt d on c.srv\_id = d.srv\_id

inner join slsdceviews.prd\_acct\_fct e on sys\_of\_rec\_invrnt\_id = e.acct\_nbr

and e.acct\_nbr is not null

and e.acct\_actvtn\_dt<=LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1

and e.acct\_datvtn\_dt>'"""+str(end\_date)+"""'

and e.prd\_subsrptn\_actvtn\_dt<=LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1

and e.prd\_subsrptn\_datvtn\_dt>'"""+str(end\_date)+"""'

and e.prd\_desc in ('IPBB','IPBB\_OOF')

and e.lblty in ('CON','IRU')

and e.bill\_sys\_geo\_id = 24

where a.domn\_id = 15

and mem\_srv\_eff\_dt < LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1

and mem\_srv\_end\_dt >= '"""+str(end\_date)+"""'

and c.srv\_id = 33

"""

td\_df = spark.read.format("jdbc").options(\*\*tdOptions).option("query", query).load()

df\_ipbb = td\_df.toPandas()

query = """

select

'Legacy' as Service,

count(distinct anw.acct\_nbr) as Registered\_Accounts

from

EDWVIEWS.blng\_id\_to\_telco\_mp\_hist blng

INNER JOIN EDWCRISVIEWS.vacct\_non\_wirls anw ON anw.acct\_id = blng.acct\_id

INNER JOIN EDWVIEWS.acct\_sts\_hist ash ON anw.acct\_id=ash.acct\_id AND ash.bill\_sys\_geo\_id = anw.bill\_sys\_geo\_id

INNER JOIN EDWVIEWS.acct\_sts\_avt asa ON ash.acct\_sts\_cd=asa.acct\_sts\_cd AND ash.bill\_sys\_geo\_id = asa.bill\_sys\_geo\_id

INNER JOIN EDWCPRVIEWS.mem\_srv\_hist ON (EDWCPRVIEWS.mem\_srv\_hist.sys\_of\_rec\_invrnt\_id= blng.blng\_id)

INNER JOIN EDWCPRVIEWS.mem\_prof\_hist ON (EDWCPRVIEWS.mem\_prof\_hist.mem\_id=EDWCPRVIEWS.mem\_srv\_hist.mem\_id)

WHERE 1=1

AND ash.acct\_sts\_end\_dt > '"""+str(end\_date)+"""'

AND ash.acct\_sts\_eff\_dt <= LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1

AND anw.bill\_sys\_geo\_id in (13,27,29,31)

AND acct\_sgmnt\_cd='C'

/\*AND asa.acct\_sts\_titl in ('Live','Active')\*/

AND corp\_assoc\_cd is null

AND EDWCPRVIEWS.mem\_prof\_hist.domn\_id = 15

AND EDWCPRVIEWS.mem\_srv\_hist.srv\_id = 10

AND EDWCPRVIEWS.mem\_srv\_hist.mem\_sts\_cd = 0

AND EDWCPRVIEWS.mem\_srv\_hist.mem\_srv\_eff\_dt <= LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1

AND EDWCPRVIEWS.mem\_srv\_hist.mem\_srv\_end\_dt > '"""+str(end\_date)+"""'

"""

td\_df = spark.read.format("jdbc").options(\*\*tdOptions).option("query", query).load()

df\_legacy = td\_df.toPandas()

query = """

select 'Wireless Local Loop' as Service, count(distinct sys\_of\_rec\_invrnt\_id) as Registered\_Accounts

from EDWCPRVIEWS.mem\_prof\_hist a --acct\_id

inner join EDWCPRVIEWS.mem\_domn\_avt b on a.domn\_id = b.domn\_id

inner join EDWCPRVIEWS.mem\_srv\_hist c on a.mem\_id = c.mem\_id

inner join EDWCPRVIEWS.mem\_srv\_avt d on c.srv\_id = d.srv\_id

inner join slsdceviews.prd\_acct\_fct e on sys\_of\_rec\_invrnt\_id = e.acct\_nbr

and e.acct\_nbr is not null

and e.acct\_actvtn\_dt<=LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1

and e.acct\_datvtn\_dt>'"""+str(end\_date)+"""'

and e.prd\_subsrptn\_actvtn\_dt<=LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1

and e.prd\_subsrptn\_datvtn\_dt>'"""+str(end\_date)+"""'

and e.prd\_desc ='WIRLS-FIX'

and e.lblty in ('CON','IRU')

and e.bill\_sys\_geo\_id = 24

where a.domn\_id = 15

and mem\_srv\_eff\_dt < LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1

and mem\_srv\_end\_dt >= '"""+str(end\_date)+"""'

and c.srv\_id = 33

"""

td\_df = spark.read.format("jdbc").options(\*\*tdOptions).option("query", query).load()

df\_wll = td\_df.toPandas()

query = """

select 'Wireless Postpaid (CON+SIG)' as Service, count(distinct sys\_of\_rec\_invrnt\_id) as Registered\_Accounts

from EDWCPRVIEWS.mem\_prof\_hist a --acct\_id

inner join EDWCPRVIEWS.mem\_domn\_avt b on a.domn\_id = b.domn\_id

inner join EDWCPRVIEWS.mem\_srv\_hist c on a.mem\_id = c.mem\_id

inner join EDWCPRVIEWS.mem\_srv\_avt d on c.srv\_id = d.srv\_id

inner join slsdceviews.prd\_acct\_fct e on sys\_of\_rec\_invrnt\_id = e.acct\_nbr

and e.acct\_nbr is not null

and e.acct\_actvtn\_dt<=LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1

and e.acct\_datvtn\_dt>'"""+str(end\_date)+"""'

and e.prd\_subsrptn\_actvtn\_dt<=LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1

and e.prd\_subsrptn\_datvtn\_dt>'"""+str(end\_date)+"""'

and e.prd\_desc='WIRLS-POST'

and e.lblty in ('CON','IRU')

and e.bill\_sys\_geo\_id = 2

where a.domn\_id = 15

and mem\_srv\_eff\_dt <= LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1

and mem\_srv\_end\_dt > '"""+str(end\_date)+"""'

and c.srv\_id = 32

"""

td\_df = spark.read.format("jdbc").options(\*\*tdOptions).option("query", query).load()

df\_wls = td\_df.toPandas()

df\_reg=df\_iptv.append([df\_ipbb,df\_legacy,df\_wll,df\_wls])

#print(df\_reg)

query="""

SELECT

'IPBB' as service,

count(distinct com\_slid\_accounts.acct\_number) as Account\_Logins,

count(distinct case when com\_domains.domain\_code='app.mobilemyaccount' then com\_slid\_accounts.acct\_number end) as app\_Logins,

count(distinct case when com\_domains.domain\_code<>'app.mobilemyaccount' then com\_slid\_accounts.acct\_number end) as nonapp\_Logins,

count(distinct case when com\_domains.domain\_code<>'app.mobilemyaccount' and wt\_agents.device\_type\_rollup='Mobile Phone' then com\_slid\_accounts.acct\_number end) as mhtml\_Logins,

count(distinct case when com\_domains.domain\_code<>'app.mobilemyaccount' and wt\_agents.device\_type\_rollup<>'Mobile Phone' then com\_slid\_accounts.acct\_number end) as html\_Logins

FROM

PRD\_DB.com\_service\_types

INNER JOIN PRD\_DB.com\_fact\_userid\_account\_associations ON (com\_fact\_userid\_account\_associations.service\_type\_id=com\_service\_types.service\_type\_id)

INNER JOIN PRD\_DB.com\_domains ON (com\_fact\_userid\_account\_associations.domain\_id=com\_domains.domain\_id)

INNER JOIN PRD\_DB.com\_login\_types ON (com\_fact\_userid\_account\_associations.login\_type\_id=com\_login\_types.login\_type\_id)

INNER JOIN PRD\_DB.com\_events ON (com\_events.source=com\_fact\_userid\_account\_associations.source and com\_events.source\_event\_id = com\_fact\_userid\_account\_associations.event\_id)

INNER JOIN PRD\_DB.com\_slid\_details ON (com\_slid\_details.slid\_id=com\_fact\_userid\_account\_associations.slid\_id)

INNER JOIN PRD\_DB.com\_slid\_account\_associations\_bridge ON (com\_slid\_account\_associations\_bridge.slid\_acct\_assoc\_id=com\_slid\_details.slid\_acct\_assoc\_id)

INNER JOIN PRD\_DB.com\_slid\_accounts ON (com\_slid\_accounts.acct\_id=com\_slid\_account\_associations\_bridge.acct\_id)

INNER JOIN PRD\_DB.wt\_agents on (com\_fact\_userid\_account\_associations.user\_agent\_id=wt\_agents.agent\_id)

inner join PRD\_DB.copernicus\_prd\_acct\_sumr copernicus on com\_slid\_accounts.acct\_number = copernicus.acct\_nbr

WHERE

com\_fact\_userid\_account\_associations.event\_date BETWEEN LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1 AND '"""+str(end\_date)+"""'

AND ((com\_domains.domain\_code IN ( 'm.att.com','app.mobilemyaccount','att.com','www.att.com','myatt-wg.att.com' ) AND com\_events.event\_code IN ( 'A\_LGN\_LOGIN\_SUB','LoginWidget\_Login\_Sub','Mbl-myATT\_Login\_SUB','Device\_Login\_SUB' ))

OR (com\_domains.domain\_code IN ( 'm.att.com','att.com','www.att.com','signin.att.com') AND com\_events.event\_code = 'Common\_Login\_Submit' AND com\_fact\_userid\_account\_associations.client\_id IN ('m36305','m10707','halo\_unknown','m14186'))

OR (com\_domains.domain\_code IN ( 'app.mobilemyaccount') AND com\_events.event\_code = 'Common\_Login\_Submit' ))

AND com\_fact\_userid\_account\_associations.source = 1

AND com\_fact\_userid\_account\_associations.success\_flag = 1

AND com\_login\_types.login\_user\_type <> 'SMB'

AND (com\_slid\_accounts.acct\_type in ('UVS','SAT','DTV') OR com\_slid\_accounts.acct\_type like '%BB%')

AND com\_fact\_userid\_account\_associations.slid\_id <> 0

and copernicus.acct\_sumr\_end\_dt > '"""+str(end\_date)+"""'

and copernicus.acct\_sumr\_eff\_dt <= LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1

and copernicus.lblty in ('CON','IRU')

and copernicus.bill\_sys\_geo\_id = 24

and copernicus.IPBB\_Ind = 'Y'

group by 1

"""

vc\_df = spark.read.format("jdbc").options(\*\*vcOptions).option("query", query).load()

df\_ipbb=vc\_df.toPandas()

df\_ipbb.columns=['Service','Account\_Logins','app\_logins','nonapp\_logins','mhtml\_logins','html\_logins']

query="""

SELECT

'IPTV' as service,

count(distinct com\_slid\_accounts.acct\_number) as Account\_Logins,

count(distinct case when com\_domains.domain\_code='app.mobilemyaccount' then com\_slid\_accounts.acct\_number end) as app\_Logins,

count(distinct case when com\_domains.domain\_code<>'app.mobilemyaccount' then com\_slid\_accounts.acct\_number end) as nonapp\_Logins,

count(distinct case when com\_domains.domain\_code<>'app.mobilemyaccount' and wt\_agents.device\_type\_rollup='Mobile Phone' then com\_slid\_accounts.acct\_number end) as mhtml\_Logins,

count(distinct case when com\_domains.domain\_code<>'app.mobilemyaccount' and wt\_agents.device\_type\_rollup<>'Mobile Phone' then com\_slid\_accounts.acct\_number end) as html\_Logins

FROM

PRD\_DB.com\_service\_types

INNER JOIN PRD\_DB.com\_fact\_userid\_account\_associations ON (com\_fact\_userid\_account\_associations.service\_type\_id=com\_service\_types.service\_type\_id)

INNER JOIN PRD\_DB.com\_domains ON (com\_fact\_userid\_account\_associations.domain\_id=com\_domains.domain\_id)

INNER JOIN PRD\_DB.com\_login\_types ON (com\_fact\_userid\_account\_associations.login\_type\_id=com\_login\_types.login\_type\_id)

INNER JOIN PRD\_DB.com\_events ON (com\_events.source=com\_fact\_userid\_account\_associations.source and com\_events.source\_event\_id = com\_fact\_userid\_account\_associations.event\_id)

INNER JOIN PRD\_DB.com\_slid\_details ON (com\_slid\_details.slid\_id=com\_fact\_userid\_account\_associations.slid\_id)

INNER JOIN PRD\_DB.com\_slid\_account\_associations\_bridge ON (com\_slid\_account\_associations\_bridge.slid\_acct\_assoc\_id=com\_slid\_details.slid\_acct\_assoc\_id)

INNER JOIN PRD\_DB.com\_slid\_accounts ON (com\_slid\_accounts.acct\_id=com\_slid\_account\_associations\_bridge.acct\_id)

INNER JOIN PRD\_DB.wt\_agents on (com\_fact\_userid\_account\_associations.user\_agent\_id=wt\_agents.agent\_id)

inner join PRD\_DB.copernicus\_prd\_acct\_sumr copernicus on com\_slid\_accounts.acct\_number = copernicus.acct\_nbr

WHERE

com\_fact\_userid\_account\_associations.event\_date BETWEEN LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1 AND '"""+str(end\_date)+"""'

AND ((com\_domains.domain\_code IN ( 'm.att.com','app.mobilemyaccount','att.com','www.att.com','myatt-wg.att.com' ) AND com\_events.event\_code IN ( 'A\_LGN\_LOGIN\_SUB','LoginWidget\_Login\_Sub','Mbl-myATT\_Login\_SUB','Device\_Login\_SUB' ))

OR (com\_domains.domain\_code IN ( 'm.att.com','att.com','www.att.com','signin.att.com') AND com\_events.event\_code = 'Common\_Login\_Submit' AND com\_fact\_userid\_account\_associations.client\_id IN ('m36305','m10707','halo\_unknown','m14186'))

OR (com\_domains.domain\_code IN ( 'app.mobilemyaccount') AND com\_events.event\_code = 'Common\_Login\_Submit' ))

AND com\_fact\_userid\_account\_associations.source = 1

AND com\_fact\_userid\_account\_associations.success\_flag = 1

AND com\_login\_types.login\_user\_type <> 'SMB'

AND (com\_slid\_accounts.acct\_type in ('UVS','SAT','DTV') OR com\_slid\_accounts.acct\_type like '%TV%')

AND com\_fact\_userid\_account\_associations.slid\_id <> 0

and copernicus.acct\_sumr\_end\_dt > '"""+str(end\_date)+"""'

and copernicus.acct\_sumr\_eff\_dt <= LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1

and copernicus.lblty in ('CON','IRU')

and copernicus.bill\_sys\_geo\_id = 24

and copernicus.IPTV\_Ind = 'Y'

group by 1

"""

vc\_df = spark.read.format("jdbc").options(\*\*vcOptions).option("query", query).load()

df\_iptv=vc\_df.toPandas()

df\_iptv.columns=['Service','Account\_Logins','app\_logins','nonapp\_logins','mhtml\_logins','html\_logins']

query="""

SELECT

'Wireless Local Loop' as service,

count(distinct com\_slid\_accounts.acct\_number) as Account\_Logins,

count(distinct case when com\_domains.domain\_code='app.mobilemyaccount' then com\_slid\_accounts.acct\_number end) as app\_Logins,

count(distinct case when com\_domains.domain\_code<>'app.mobilemyaccount' then com\_slid\_accounts.acct\_number end) as nonapp\_Logins,

count(distinct case when com\_domains.domain\_code<>'app.mobilemyaccount' and wt\_agents.device\_type\_rollup='Mobile Phone' then com\_slid\_accounts.acct\_number end) as mhtml\_Logins,

count(distinct case when com\_domains.domain\_code<>'app.mobilemyaccount' and wt\_agents.device\_type\_rollup<>'Mobile Phone' then com\_slid\_accounts.acct\_number end) as html\_Logins

FROM

PRD\_DB.com\_service\_types

INNER JOIN PRD\_DB.com\_fact\_userid\_account\_associations ON (com\_fact\_userid\_account\_associations.service\_type\_id=com\_service\_types.service\_type\_id)

INNER JOIN PRD\_DB.com\_domains ON (com\_fact\_userid\_account\_associations.domain\_id=com\_domains.domain\_id)

INNER JOIN PRD\_DB.com\_login\_types ON (com\_fact\_userid\_account\_associations.login\_type\_id=com\_login\_types.login\_type\_id)

INNER JOIN PRD\_DB.com\_events ON (com\_events.source=com\_fact\_userid\_account\_associations.source and com\_events.source\_event\_id = com\_fact\_userid\_account\_associations.event\_id)

INNER JOIN PRD\_DB.com\_slid\_details ON (com\_slid\_details.slid\_id=com\_fact\_userid\_account\_associations.slid\_id)

INNER JOIN PRD\_DB.com\_slid\_account\_associations\_bridge ON (com\_slid\_account\_associations\_bridge.slid\_acct\_assoc\_id=com\_slid\_details.slid\_acct\_assoc\_id)

INNER JOIN PRD\_DB.com\_slid\_accounts ON (com\_slid\_accounts.acct\_id=com\_slid\_account\_associations\_bridge.acct\_id)

INNER JOIN PRD\_DB.wt\_agents on (com\_fact\_userid\_account\_associations.user\_agent\_id=wt\_agents.agent\_id)

inner join PRD\_DB.copernicus\_prd\_acct\_sumr copernicus on com\_slid\_accounts.acct\_number = copernicus.acct\_nbr

WHERE

com\_fact\_userid\_account\_associations.event\_date BETWEEN LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1 AND '"""+str(end\_date)+"""'

AND ((com\_domains.domain\_code IN ( 'm.att.com','app.mobilemyaccount','att.com','www.att.com','myatt-wg.att.com' ) AND com\_events.event\_code IN ( 'A\_LGN\_LOGIN\_SUB','LoginWidget\_Login\_Sub','Mbl-myATT\_Login\_SUB','Device\_Login\_SUB' ))

OR (com\_domains.domain\_code IN ( 'm.att.com','att.com','www.att.com','signin.att.com') AND com\_events.event\_code = 'Common\_Login\_Submit' AND com\_fact\_userid\_account\_associations.client\_id IN ('m36305','m10707','halo\_unknown','m14186'))

OR (com\_domains.domain\_code IN ( 'app.mobilemyaccount') AND com\_events.event\_code = 'Common\_Login\_Submit' ))

AND com\_fact\_userid\_account\_associations.source = 1

AND com\_fact\_userid\_account\_associations.success\_flag = 1

AND com\_login\_types.login\_user\_type <> 'SMB'

AND (com\_slid\_accounts.acct\_type in ('UVS','SAT','DTV') OR com\_slid\_accounts.acct\_type like '%BB%')

AND com\_fact\_userid\_account\_associations.slid\_id <> 0

and copernicus.acct\_sumr\_end\_dt > '"""+str(end\_date)+"""'

and copernicus.acct\_sumr\_eff\_dt <= LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1

and copernicus.lblty in ('CON','IRU')

and copernicus.bill\_sys\_geo\_id = 24

and copernicus.prd\_list like '%WIRLS-FIX%'

group by 1

"""

vc\_df = spark.read.format("jdbc").options(\*\*vcOptions).option("query", query).load()

df\_wll=vc\_df.toPandas()

df\_wll.columns=['Service','Account\_Logins','app\_logins','nonapp\_logins','mhtml\_logins','html\_logins']

query="""

SELECT

'Wireless Postpaid (CON+SIG)' as service,

count(distinct com\_slid\_accounts.acct\_number) as Account\_Logins,

count(distinct case when com\_domains.domain\_code='app.mobilemyaccount' then com\_slid\_accounts.acct\_number end) as app\_Logins,

count(distinct case when com\_domains.domain\_code<>'app.mobilemyaccount' then com\_slid\_accounts.acct\_number end) as nonapp\_Logins,

count(distinct case when com\_domains.domain\_code<>'app.mobilemyaccount' and wt\_agents.device\_type\_rollup='Mobile Phone' then com\_slid\_accounts.acct\_number end) as mhtml\_Logins,

count(distinct case when com\_domains.domain\_code<>'app.mobilemyaccount' and wt\_agents.device\_type\_rollup<>'Mobile Phone' then com\_slid\_accounts.acct\_number end) as html\_Logins

FROM PRD\_DB.com\_service\_types --this query takes 6 minutes or less

INNER JOIN PRD\_DB.com\_fact\_userid\_account\_associations ON (com\_fact\_userid\_account\_associations.service\_type\_id=com\_service\_types.service\_type\_id)

INNER JOIN PRD\_DB.com\_domains ON (com\_fact\_userid\_account\_associations.domain\_id=com\_domains.domain\_id)

INNER JOIN PRD\_DB.com\_login\_types ON (com\_fact\_userid\_account\_associations.login\_type\_id=com\_login\_types.login\_type\_id)

INNER JOIN PRD\_DB.com\_events ON (com\_events.source=com\_fact\_userid\_account\_associations.source and com\_events.source\_event\_id = com\_fact\_userid\_account\_associations.event\_id)

INNER JOIN PRD\_DB.com\_slid\_details ON (com\_slid\_details.slid\_id=com\_fact\_userid\_account\_associations.slid\_id)

INNER JOIN PRD\_DB.com\_slid\_account\_associations\_bridge ON (com\_slid\_account\_associations\_bridge.slid\_acct\_assoc\_id=com\_slid\_details.slid\_acct\_assoc\_id)

INNER JOIN PRD\_DB.com\_slid\_accounts ON (com\_slid\_accounts.acct\_id=com\_slid\_account\_associations\_bridge.acct\_id)

INNER JOIN PRD\_DB.wt\_agents on (com\_fact\_userid\_account\_associations.user\_agent\_id=wt\_agents.agent\_id)

WHERE

com\_fact\_userid\_account\_associations.event\_date BETWEEN LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1 AND '"""+str(end\_date)+"""'

AND ((com\_domains.domain\_code IN ( 'm.att.com','app.mobilemyaccount','att.com','www.att.com','myatt-wg.att.com' ) AND com\_events.event\_code IN ( 'A\_LGN\_LOGIN\_SUB','LoginWidget\_Login\_Sub','Mbl-myATT\_Login\_SUB','Device\_Login\_SUB','Mbl-myATT\_Login\_Sub' ))

OR (com\_domains.domain\_code IN ( 'm.att.com','att.com','www.att.com','signin.att.com') AND com\_events.event\_code = 'Common\_Login\_Submit' AND com\_fact\_userid\_account\_associations.client\_id IN ('m36305','m10707','halo\_unknown','m14186'))

OR (com\_domains.domain\_code IN ( 'app.mobilemyaccount') AND com\_events.event\_code = 'Common\_Login\_Submit' ))

AND com\_fact\_userid\_account\_associations.source = 1

AND com\_fact\_userid\_account\_associations.success\_flag = 1

AND com\_login\_types.login\_user\_type <> 'SMB'

AND com\_slid\_accounts.acct\_type like '%WLS%'

AND com\_fact\_userid\_account\_associations.slid\_id <> 0

group by 1

"""

vc\_df = spark.read.format("jdbc").options(\*\*vcOptions).option("query", query).load()

df\_wls=vc\_df.toPandas()

df\_wls.columns=['Service','Account\_Logins','app\_logins','nonapp\_logins','mhtml\_logins','html\_logins']

query="""

SELECT

'Legacy' as service,

count(distinct com\_slid\_accounts.acct\_number) as Account\_Logins,

count(distinct case when com\_domains.domain\_code='app.mobilemyaccount' then com\_slid\_accounts.acct\_number end) as app\_Logins,

count(distinct case when com\_domains.domain\_code<>'app.mobilemyaccount' then com\_slid\_accounts.acct\_number end) as nonapp\_Logins,

count(distinct case when com\_domains.domain\_code<>'app.mobilemyaccount' and wt\_agents.device\_type\_rollup='Mobile Phone' then com\_slid\_accounts.acct\_number end) as mhtml\_Logins,

count(distinct case when com\_domains.domain\_code<>'app.mobilemyaccount' and wt\_agents.device\_type\_rollup<>'Mobile Phone' then com\_slid\_accounts.acct\_number end) as html\_Logins

FROM PRD\_DB.com\_service\_types --this query takes 6 minutes or less

INNER JOIN PRD\_DB.com\_fact\_userid\_account\_associations ON (com\_fact\_userid\_account\_associations.service\_type\_id=com\_service\_types.service\_type\_id)

INNER JOIN PRD\_DB.com\_domains ON (com\_fact\_userid\_account\_associations.domain\_id=com\_domains.domain\_id)

INNER JOIN PRD\_DB.com\_login\_types ON (com\_fact\_userid\_account\_associations.login\_type\_id=com\_login\_types.login\_type\_id)

INNER JOIN PRD\_DB.com\_events ON (com\_events.source=com\_fact\_userid\_account\_associations.source and com\_events.source\_event\_id = com\_fact\_userid\_account\_associations.event\_id)

INNER JOIN PRD\_DB.com\_slid\_details ON (com\_slid\_details.slid\_id=com\_fact\_userid\_account\_associations.slid\_id)

INNER JOIN PRD\_DB.com\_slid\_account\_associations\_bridge ON (com\_slid\_account\_associations\_bridge.slid\_acct\_assoc\_id=com\_slid\_details.slid\_acct\_assoc\_id)

INNER JOIN PRD\_DB.com\_slid\_accounts ON (com\_slid\_accounts.acct\_id=com\_slid\_account\_associations\_bridge.acct\_id)

INNER JOIN PRD\_DB.wt\_agents on (com\_fact\_userid\_account\_associations.user\_agent\_id=wt\_agents.agent\_id)

WHERE

com\_fact\_userid\_account\_associations.event\_date BETWEEN LAST\_DAY(ADD\_MONTHS(CURRENT\_DATE, - 1))+1 AND '"""+str(end\_date)+"""'

AND ((com\_domains.domain\_code IN ( 'm.att.com','app.mobilemyaccount','att.com','www.att.com','myatt-wg.att.com' ) AND com\_events.event\_code IN ( 'A\_LGN\_LOGIN\_SUB','LoginWidget\_Login\_Sub','Mbl-myATT\_Login\_SUB','Device\_Login\_SUB','Mbl-myATT\_Login\_Sub' ))

OR (com\_domains.domain\_code IN ( 'm.att.com','att.com','www.att.com','signin.att.com') AND com\_events.event\_code = 'Common\_Login\_Submit' AND com\_fact\_userid\_account\_associations.client\_id IN ('m36305','m10707','halo\_unknown','m14186'))

OR (com\_domains.domain\_code IN ( 'app.mobilemyaccount') AND com\_events.event\_code = 'Common\_Login\_Submit' ))

AND com\_fact\_userid\_account\_associations.source = 1

AND com\_fact\_userid\_account\_associations.success\_flag = 1

AND com\_login\_types.login\_user\_type <> 'SMB'

AND com\_slid\_accounts.acct\_type='WLN'

AND com\_fact\_userid\_account\_associations.slid\_id <> 0

group by 1

"""

vc\_df = spark.read.format("jdbc").options(\*\*vcOptions).option("query", query).load()

df\_legacy=vc\_df.toPandas()

df\_legacy.columns=['Service','Account\_Logins','app\_logins','nonapp\_logins','mhtml\_logins','html\_logins']

df\_logins=df\_legacy.append([df\_wll,df\_iptv,df\_ipbb,df\_wls])

#print(df\_logins)

df=df\_logins.merge(df\_accts, left\_on='Service', right\_on='Service').merge(df\_reg,left\_on='Service', right\_on='Service')

#print(df)

df['Effective\_Date']=end\_date

#print(df)

insert\_df1 = spark.createDataFrame(df)

insert\_df1.write.format("jdbc").mode("overwrite").option("url", "jdbc:vertica://verticaedm.it.att.com:1595").options(\*\*vcOptions).option("dbtable", " user\_30\_day\_tables.fa3015\_RegisteredAccountLogins\_New ").option("column\_mapping", "name").option("column\_mismatch\_behavior", "ignore").option("error\_on\_column\_count\_mismatch", "false").mode("append").save()