🡺SDK Commands to RUN GCP Console 21 STEPS

🡺SMV\_DataEngineer

1.SDK – init ?

1.connect to GCP through SDK

SYNTAX 🡺

gcloud init

2.Pick configuration to use:

[1] Re-initialize this configuration [default] with new settings

[2] Create a new configuration

choose what you want number 1

3.Choose the account you would like to use to perform operations for this configuration:

[1] smvprasad0@gmail.com

[2] Log in with a new account

chose which mail id you login to gcp Console 1

4.Pick cloud project to use:

[1] academic-motif-333015

[2] blesson-project1

[3] even-archway-332212

[4] gifted-veld-333006

[5] SMV\_DataEngineer-333104

[6] marine-fusion-332515

[7] noble-conduit-332515

[8] total-pad-332502

[9] Create a new project

chose the which project you are working. 5

* Do you want to configure a default Compute Region and Zone? (Y/n)?

if you want to change the region type y other wise type n

2. create bucket ?

* if you want to create storage bucket in gcp

Bucket name is create globally unique name

SYNTAX 🡺

gsutil mb gs://SMV\_bucketname

this command default created a standard zone.

Or

SYNTAX 🡺

gsutil mb -l us East1-c Archive gs://SMV\_bucket

3. check bucket ?

* we can see the list of the file in the buckets

SYNTAX 🡺

gsutil ls gs://SMV\_bucketname

4. create landing zone(local path for now) project path ?

* if you want to transfer in your local file to GCS bucket

SYNTAX 🡺

gsutil cp C:\SMV\Repurchase\_Product.csv gs://SMV\_bucketname

5. check landing zone path with credentials ?

* we can see the list of the file in the buckets

SYNTAX 🡺

gsutil ls

6. verify file path and file format ?

* we can see the list of the file in the buckets

SYNTAX 🡺

gsutil ls gs://SMV\_bucket/filename

7. copy command to load into GCS ?

* Loading the table to big quey dataset for the Biq query commands

SYNTAX 🡺

Bq load --source\_format=CSV --autodetect SMV\_data\_prod\_dev.prod\_table "E:\CDE\Data\categories.csv"

8. verify file and data ?

* display the data inside the file information.

SYNTAX 🡺

gsutil cat gs://SMV\_bucket/filename

9. Create dataset in BQ ?

* create the dataset inside the Bigquery.

SYNTAX 🡺

bq mk -d SMV\_sales\_dev datasetname

10. verify dataset name and properties ?

* See the list of the dataset in the big query

SYNTAX 🡺

bq ls SMV\_sales\_dev datasetname

11. prepare DDL script for (Stage, History, Audit, Archive) ?

12. Create stage & hist tables in specific dataset ?

* create the table with schema

SYNTAX 🡺

bq mk -t SMV\_sales\_dev.sales\_stage\_table id:int,name:string......etc

13. Load from GCS to stage table ?

1.Loading the table to big quey dataset for the Biq query commands

SYNTAX 🡺

bq load --source\_format=CSV SMV\_data\_prod\_dev.prod\_table "E:\CDE\Data\categories.csv" or gs://SMV\_bucket/filename

14 verify the data column by column with stage table

* you can see the data of the table

SYNTAX 🡺

bq query –nouse\_legacy\_sql "select \* from

SMV\_sales\_dev.Sales\_stage\_table "

15 Entry into Audit table on stg load ?

16. Run Load script to load the data into History with transformation ?

* insert values in bigquery

bq query --nouse\_legacy\_sql=FALSE "insert into

SMV\_sales\_dev. Sales\_history\_table cast(cid as int64),cast(upc as float64),cast(id as int64),parse\_date("%m/%d/%Y",dt)

parse\_date("%m/%d/%Y",r\_dt),cast(prc as float64),cast(qty as int64),cast(amt as float64),cast(r\_qty as int64),

cast(r\_amt as float64),cast(web\_prod\_id as int64),GMM\_DESC,PARENT\_MDSE\_DIVN\_DESC,current\_timestamp() as timestamp,"ind" as country\_code,"ts" as entity\_code"from SMV\_sales\_dev. Sales\_stage\_table "

17. Entry into the Audit table on History load ?

18. Verify the data column by column in History as per DIS ?

6.you can see the data of the table

SYNTAX 🡺

bq query –nouse\_legacy\_sql "select \* from

SMV\_sales\_dev. Sales\_history\_table "

19. Load data into the Archive table ?

20. Create Auth Views ?

* creating the view for the table in the dataset

SYNTAX 🡺

bq query --use\_legacy\_sql=false create view SMV\_data\_prod\_dev.prod\_view\_table\_name as select \* from SMV\_sales\_dev. Sales\_history\_table "

21. Verify views data as per the entitlement logic ?

bq mk --use\_legacy\_sql=false --view "select \* from SMV\_sales\_dev.sales "