

Prerequisites:

- Start Gcloud instance
- Pull and start Docker image (marcelmittelstaedt/hiveserver base:latest)
- Start Hadoop Cluster
- Start HiveServer2
- Download, Install and Configure JDBC Rich-client:
 - e.g. DBeaver,
 - SquirrelSQL,
 - ...
- Execute all preparation and example tasks of previous HandsOn slides of last lecture



Exercise IV:

2.1 Create table name_basics_partitioned partitioned by column partition is alive:



Exercise IV:

2.2 Use static partitioning to create and fill partition 'alive'

Exercise IV:

2.3 Use static partitioning to create and fill partition 'dead'

Exercise IV:

2.4 Check Results:



Exercise IV:

2.4 Check Results:



Exercise IV:

3.1 Create table imdb_movies_and_ratings_partitioned partitioned by column partition_year using fields of table title_basics and title_ratings:



Exercise IV:

3.2 Use dynamic partitioning to create and fill partition partition year:

```
SET hive.exec.dynamic.partition.mode=nonstrict;
INSERT OVERWRITE TABLE imdb movies and ratings partitioned partition (partition year)
SELECT
            tb.tconst,
            tb.title type,
            tb.primary title,
            tb.original title,
            tb.is adult,
            tb.start year,
            tb.end year,
            tb.runtime minutes,
            tb.genres,
            tr.average rating,
            tr.num votes,
            tb.start year
FROM title basics tb JOIN title ratings tr ON (tb.tconst = tr.tconst)
```

Exercise IV:

3.3 Check Results:

```
hadoop fs -ls /user/hadoop/imdb/movies and ratings partitioned
drwxr-xr-x
             - hadoop supergroup
                                         0 2021-02-27 17:24 /user/hadoop/imdb/movies and ratings partitioned/partition year=1874
             - hadoop supergroup
                                         0 2021-02-27 17:24 /user/hadoop/imdb/movies and ratings partitioned/partition year=1878
drwxr-xr-x
drwxr-xr-x
             - hadoop supergroup
                                         0 2021-02-27 17:24 /user/hadoop/imdb/movies and ratings partitioned/partition year=1881
             - hadoop supergroup
                                         0 2021-02-27 17:24 /user/hadoop/imdb/movies and ratings partitioned/partition year=1883
                                         0 2021-02-27 17:24 /user/hadoop/imdb/movies and ratings partitioned/partition year=1885
             - hadoop supergroup
             - hadoop supergroup
                                         0 2021-02-27 17:24 /user/hadoop/imdb/movies and ratings partitioned/partition year=1887
             - hadoop supergroup
                                         0 2021-02-27 17:24 /user/hadoop/imdb/movies and ratings partitioned/partition year=1888
drwxr-xr-x
             - hadoop supergroup
                                         0 2021-02-27 17:24 /user/hadoop/imdb/movies and ratings partitioned/partition year=1889
                                         0 2021-02-27 17:24 /user/hadoop/imdb/movies and ratings partitioned/partition year=1890
             - hadoop supergroup
drwxr-xr-x
             - hadoop supergroup
                                         0 2021-02-27 17:24 /user/hadoop/imdb/movies and ratings partitioned/partition year=1891
             - hadoop supergroup
                                         0 2021-02-27 17:24 /user/hadoop/imdb/movies and ratings partitioned/partition year=1892
drwxr-xr-x
[...]
```

Exercise IV:

3.3 Check Results:



