

Script SQL

Connexion au serveur :

```
psql "host=c-groupe2.jh4mqc5jxykkfg.postgres.cosmos.azure.com port=5432  
dbname=netflooxx user=citus password=flooxx94! sslmode=require"
```

Ajout de schémas :

```
DROP SCHEMA IF EXISTS test1 CASCADE;  
CREATE SCHEMA test1;  
SET search_path to test1;  
-- DROP SCHEMA IF EXISTS test2 CASCADE;  
-- CREATE SCHEMA test2;  
-- SET search_path to test2;  
-- DROP SCHEMA IF EXISTS test3 CASCADE;  
-- CREATE SCHEMA test3;  
-- SET search_path to test3;
```

Création des tables :

```
DROP TABLE IF EXISTS name_basics;  
CREATE TABLE "name_basics"  
(  
    "nconst" text,  
    "primaryName" text,  
    "birthYear" text,  
    "deathYear" text,  
    "primaryProfession" text,  
    "knownForTitles" text  
);
```

```
DROP TABLE IF EXISTS title_basics;  
CREATE TABLE title_basics  
(  
    "tconst" text NOT NULL,  
    "titleType" text,  
    "primaryTitle" text,  
    "originalTitle" text,  
    "isAdult" text,  
    "startYear" text,  
    "endYear" text,  
    "runtimeMinutes" text,  
    "genres" text  
);
```

```
DROP TABLE IF EXISTS title_principals;
```

```
CREATE TABLE title_principals
(
  "tconst" text NOT NULL,
  "ordering" int2 NOT NULL,
  "nconst" text,
  "category" text,
  "job" text,
  "characters" text
);
```

```
DROP TABLE IF EXISTS title_crew;
CREATE TABLE title_crew
(
  "tconst" text,
  "directors" text,
  "writers" text
);
```

```
DROP TABLE IF EXISTS title_akas;
CREATE TABLE title_akas
(
  "titleId" text,
  "ordering" int,
  "title" text,
  "region" text,
  "language" text,
  "types" text,
  "attributes" text,
  "isOriginalTitle" text
);
```

```
DROP TABLE IF EXISTS title_episode;
CREATE TABLE title_episode
(
  "tconst" text,
  "parentTconst" text,
  "seasonNumber" text,
  "episodeNumber" text
);
```

```
DROP TABLE IF EXISTS title_ratings;
CREATE TABLE title_ratings
(
  "tconst" text,
  "averageRating" text,
  "numVotes" text
);
```

Importation des données :

```
\COPY name_basics FROM PROGRAM 'curl -s https://datasets.imdbws.com/
name.basics.tsv.gz | zcat | head -50000' with (format csv, delimiter E'\t', header
TRUE, quote E'\b');
```

```
\COPY title_basics FROM PROGRAM 'curl -s https://datasets.imdbws.com/
title.basics.tsv.gz | zcat | head -50000' with (format csv, delimiter E'\t', header
TRUE, quote E'\b');
```

```
\COPY title_principals FROM PROGRAM 'curl -s https://datasets.imdbws.com/
title.principals.tsv.gz | zcat | head -50000' with (format csv, delimiter E'\t',
header TRUE, quote E'\b');
```

```
\COPY title_crew FROM PROGRAM 'curl -s https://datasets.imdbws.com/
title.crew.tsv.gz | zcat | head -50000' with (format csv, delimiter E'\t', header
TRUE, quote E'\b');
```

```
\COPY title_akas FROM PROGRAM 'curl -s https://datasets.imdbws.com/
title.akas.tsv.gz | zcat | with (format csv, delimiter E'\t', header TRUE, quote
E'\b', NULL '\N');
```

```
\COPY title_episode FROM PROGRAM 'curl -s https://datasets.imdbws.com/
title.episode.tsv.gz | zcat | head -50000' with (format csv, delimiter E'\t', header
TRUE, quote E'\b');
```

```
\COPY name_basics FROM 'title_akas.tsv' WITH (FORMAT csv, DELIMITER E'\t',
HEADER TRUE, NULL '\N', QUOTE E'\b', ENCODING 'UTF8');
```

- \COPY title_akas FROM PROGRAM 'curl -s https://
datasets.imdbws.com/title.akas.tsv.gz | zcat with (format csv, delimiter
E'\t', Nheader TRUE, quote E'\b');

Supprimer les lignes pas présentes : **DELETE FROM principal.title_akas**
WHERE "titleId" NOT IN (SELECT "tconst" FROM principal.title_basics)

```
CREATE TABLE principal.name_basics (  
  nconst varchar(11) NOT NULL,  
  "primaryName" text NULL,  
  "birthYear" int2 NULL,  
  "deathYear" int2 NULL,  
  "primaryProfession" text NULL,
```

```
        "knownForTitles" text NULL,  
        CONSTRAINT name_basics_pk PRIMARY KEY (nconst)  
    );  
CREATE INDEX name_basics_primaryname_idx ON principal.name_basics  
USING btree ("primaryName");
```

```
CREATE TABLE principal.title_akas (  
    "titleId" varchar(11) NOT NULL,  
    "ordering" int4 NOT NULL,  
    title text NULL,  
    region text NULL,  
    "language" text NULL,  
    "types" text NULL,  
    "attributes" text NULL,  
    "isOriginalTitle" int4 NULL,  
    CONSTRAINT title_akas_pk PRIMARY KEY ("titleId", ordering)  
);
```

```
CREATE TABLE principal.title_basics (  
    tconst varchar(11) NOT NULL,  
    "titleType" varchar(11) NULL,  
    "primaryTitle" text NULL,  
    "originalTitle" text NULL,  
    "isAdult" int2 NULL,  
    "startYear" int2 NULL,  
    "endYear" int2 NULL,  
    "runtimeMinutes" int4 NULL,  
    genres text NULL,  
    CONSTRAINT title_basics_pk PRIMARY KEY (tconst)  
);  
CREATE INDEX title_basics_genres_idx ON principal.title_basics USING btree  
(genres);  
CREATE INDEX title_basics_originaltitle_idx ON principal.title_basics USING  
btree ("originalTitle");  
CREATE INDEX title_basics_primarytitle_idx ON principal.title_basics USING  
btree ("primaryTitle");  
CREATE INDEX title_basics_runtimeminutes_idx ON principal.title_basics  
USING btree ("runtimeMinutes");  
CREATE INDEX title_basics_tconst_idx ON principal.title_basics USING btree  
(tconst);
```

```
CREATE TABLE principal.title_crew (  
    tconst varchar(11) NOT NULL,  
    directors text NULL,  
    writers text NULL,
```

```

        CONSTRAINT title_crew_pk PRIMARY KEY (tconst)
    );
CREATE INDEX title_crew_tconst_idx ON principal.title_crew USING btree
(tconst);

CREATE TABLE principal.title_episode (
    tconst varchar(11) NOT NULL,
    "parentTconst" varchar(11) NOT NULL,
    "seasonNumber" int4 NULL,
    "episodeNumber" int4 NULL,
    CONSTRAINT title_episode_pk PRIMARY KEY (tconst, "parentTconst")
);
CREATE INDEX title_episode_parenttconst_idx ON principal.title_episode
USING btree ("parentTconst");
CREATE INDEX title_episode_tconst_idx ON principal.title_episode USING
btree (tconst);

CREATE TABLE principal.title_principals (
    tconst varchar(11) NOT NULL,
    "ordering" int2 NOT NULL,
    nconst varchar(11) NULL,
    category text NULL,
    job text NULL,
    "characters" text NULL,
    CONSTRAINT title_principals_pk PRIMARY KEY (tconst, ordering)
);
CREATE INDEX title_principals_nconst_idx ON principal.title_principals USING
btree (nconst);
CREATE INDEX title_principals_tconst_idx ON principal.title_principals USING
btree (tconst);

CREATE TABLE principal.title_ratings (
    tconst varchar(11) NOT NULL,
    "averageRating" float8 NULL,
    "numVotes" int4 NULL,
    CONSTRAINT title_ratings_pk PRIMARY KEY (tconst),
    CONSTRAINT title_ratings_title_basics_fk FOREIGN KEY (tconst)
REFERENCES principal.title_basics(tconst)
);

-- principal.filmview source

CREATE MATERIALIZED VIEW principal.filmview
TABLESPACE pg_default
AS SELECT tb.tconst,

```

```

    tb."primaryTitle",
    tb."titleType",
    tb."isAdult",
    tb."startYear",
    tb."endYear",
    tb."runtimeMinutes",
    tb.genres,
    rt."averageRating",
    rt."numVotes",
    array_agg((tp.category || '_'::text) || replace(nb."primaryName", ' '::text,
'_'::text)) AS "Cate&names"
FROM principal.title_basics tb
JOIN principal.title_ratings rt ON tb.tconst::text = rt.tconst::text
JOIN principal.title_principals tp ON tb.tconst::text = tp.tconst::text
JOIN principal.name_basics nb ON tp.nconst::text = nb.nconst::text
GROUP BY tb.tconst, rt."averageRating", rt."numVotes"
WITH DATA;

```

-- principal.castview source

```

CREATE MATERIALIZED VIEW principal.castview
TABLESPACE pg_default
AS SELECT tb.tconst,
    tb."primaryTitle",
    tb."titleType",
    tb."isAdult",
    tb."startYear",
    tb."endYear",
    tb."runtimeMinutes",
    tb.genres,
    avg(rt."averageRating") AS "averageRating",
    avg(rt."numVotes") AS "numVotes",
    string_agg(DISTINCT cw.directors, ','::text) AS directors,
    string_agg(DISTINCT cw.writers, ','::text) AS writers,
    string_agg(DISTINCT replace(nbt."primaryName", ' '::text, '_'::text),
','::text) FILTER (WHERE tp.category ~~ 'act%'::text) AS actor,
    string_agg(DISTINCT replace(nbt."primaryName", ' '::text, '_'::text),
','::text) FILTER (WHERE tp.category = 'director'::text) AS director,
    string_agg(DISTINCT replace(nbt."primaryName", ' '::text, '_'::text),
','::text) FILTER (WHERE tp.category = 'writer'::text) AS writer,
    string_agg(DISTINCT replace(nbt."primaryName", ' '::text, '_'::text),
','::text) FILTER (WHERE tp.category = 'producer'::text) AS producer,
    string_agg(DISTINCT replace(nbt."primaryName", ' '::text, '_'::text),
','::text) FILTER (WHERE tp.category = 'cinematographer'::text) AS
cinematographer,
    string_agg(DISTINCT replace(nbt."primaryName", ' '::text, '_'::text),
','::text) FILTER (WHERE tp.category = 'composer'::text) AS composer,

```

```

    string_agg(DISTINCT replace(nbt."primaryName", ' '::text, '_ '::text),
    ' '::text) FILTER (WHERE tp.category = 'editor'::text) AS editor,
    string_agg(DISTINCT replace(nbt."primaryName", ' '::text, '_ '::text),
    ' '::text) FILTER (WHERE tp.category = 'production_designer'::text) AS
production_designer,
    string_agg(DISTINCT replace(nbt."primaryName", ' '::text, '_ '::text),
    ' '::text) FILTER (WHERE tp.category = 'self'::text) AS self,
    string_agg(DISTINCT replace(nbt."primaryName", ' '::text, '_ '::text),
    ' '::text) FILTER (WHERE tp.category = 'archive_footage'::text) AS
archive_footage,
    string_agg(DISTINCT replace(nbt."primaryName", ' '::text, '_ '::text),
    ' '::text) FILTER (WHERE tp.category = 'archive_sound'::text) AS
archive_sound
FROM principal.title_basics tb
LEFT JOIN principal.title_ratings rt ON tb.tconst::text = rt.tconst::text
LEFT JOIN principal.crewview cw ON tb.tconst::text = cw.tconst::text
LEFT JOIN principal.title_principals tp ON tb.tconst::text = tp.tconst::text
LEFT JOIN principal.name_basics nbt ON tp.nconst::text = nbt.nconst::text
GROUP BY tb.tconst
WITH DATA;

```

-- View indexes:

```

CREATE INDEX castview_tconst_idx ON principal.castview USING btree
(tconst);

```

```

CREATE MATERIALIZED VIEW principal.crewview
TABLESPACE pg_default
AS SELECT tb.tconst,
    string_agg(DISTINCT replace(nc_directors."primaryName", ' '::text,
    '_ '::text), ' '::text) AS directors,
    string_agg(DISTINCT replace(nc_writers."primaryName", ' '::text,
    '_ '::text), ' '::text) AS writers
FROM principal.title_basics tb
JOIN principal.title_crew tc ON tb.tconst::text = tc.tconst::text
LEFT JOIN principal.name_basics nc_directors ON
nc_directors.nconst::text = ANY (string_to_array(tc.directors, ' '::text))
LEFT JOIN principal.name_basics nc_writers ON nc_writers.nconst::text =
ANY (string_to_array(tc.writers, ' '::text))
GROUP BY tb.tconst
WITH DATA;

```