1-

ρa(πactor,genre(casts \*titlegenres\_movies)

ρb(πactor,genre,COUNT(‘x’) by\_genre Ģactor,genre(a))

ρc(πactor ,COUNT(‘x’) total Ģactor (a))

πactor,genre,by\_genre,total ┬actor(b \*actorc)

WITH a AS (SELECT actor,genre from iaa10.casts JOIN iaa10.genres\_movies USING (title)),

b AS (SELECT actor,genre,COUNT('x') by\_genre FROM a GROUP BY actor,genre),

c AS (SELECT actor,COUNT('x') total FROM a GROUP BY actor)

SELECT DISTINCT actor,genre,by\_genre,total FROM b JOIN c USING (actor) ORDER BY actor;

2-

ρa(πfilming\_language,COUNT(‘x’) n\_movies┬n\_movies( Ģfilming\_language (movies))

πfilming\_languaje,n\_movies(σrownum<5(a))

WITH a as (SELECT filming\_language,COUNT('x') n\_movies FROM iaa10.movies GROUP BY filming\_language ORDER BY n\_movies DESC)

SELECT A.filming\_language, A.n\_movies FROM a WHERE rownum<5;

3-

πname ((πclient, avg(PCT) as mean (Ģclient (taps\_movies \*titlelic\_movies))Ua (Ģclient (taps\_series\*title,season lic\_series)) θa.client=c.clientid AND mean<60 clients c))

SELECT name FROM

(select client,avg(PCT) mean from iaa10.taps\_movies JOIN iaa10.lic\_movies USING (title) GROUP BY client

UNION

select client,avg(PCT) mean from iaa10.taps\_series JOIN iaa10.lic\_series USING (title,season) GROUP BY client) a

JOIN iaa10.clients c ON (a.client=c.clientid AND mean<60);

4-

πdirector\_name,COUNT(‘x’) ( Ģdirector\_name (σ2\*gross>budget AND UPPER(country)='USA'movies)

select director\_name,count('x') FROM iaa10.movies where 2\*gross>budget AND UPPER(country)='USA' group by director\_name;

5-

ρa(πactor,genre(casts \*titlegenres\_movies)

ρb(πgenre,actor,COUNT(‘x’) by\_genre Ģactor,genre(a))

ρc(πgenre,MAX(by\_genre) maximo Ģgenre (b))

ρd(πgenre,actor,maximo(c θc.maximo=b.by\_genre AND c.genre=b.genre b)

πgenre,listagg(actor,’, ’) by null Ģgenre (d)

WITH a AS (SELECT actor,genre FROM iaa10.casts JOIN iaa10.genres\_movies USING (title)),

b AS (SELECT genre,actor,count('x') by\_genre FROM a GROUP BY genre,actor),

c AS (SELECT genre,MAX(by\_genre) AS maximo FROM b GROUP BY genre),

d AS (SELECT C.genre,actor,maximo FROM c JOIN b on (c.maximo=b.by\_genre and c.genre = b.genre))

SELECT genre, listagg(actor,', ') WITHIN GROUP (ORDER BY NULL) names FROM d GROUP BY d.genre;