١_

 π m.language, num γ m.language; COUNT(*) \rightarrow num σ m.did = d.did and m.mid = a.mid and a.arid = ar.arid and ar.first_name = d.first_name and ar.last_name = d.last_name (((ρ m Movie × ρ d Director) × ρ a Acting) × ρ ar Artist)

۲_

 π name σ rate = t (ρ rates (ρ name \leftarrow m.title, rate \leftarrow r.avg_ratings π m.title, r.avg_ratings σ m.mid = r.mid and m.start_year > ' γ · γ ' and m.end_year < ' γ · γ ' (ρ m Movie × ρ r Rating)) × ρ top (π t γ ; MAX(rate) \rightarrow t ρ rates (ρ name \leftarrow m.title, rate \leftarrow r.avg_ratings π m.title, r.avg_ratings σ m.mid = r.mid and m.start_year > ' γ · γ ' and m.end_year < ' γ · γ ' and m.is_adult = 'yes' (ρ m Movie × ρ r Rating)) γ -

٤_

 π average γ ; AVG(rate) \rightarrow average ρ rates (ρ rate \leftarrow r.avg_ratings π r.avg_ratings σ m.mid = r.mid and (m.genres = 'horror' or m.genres = 'sureal') (ρ m Movie \times ρ r Rating))

٥_

 π num γ ; COUNT(*) \rightarrow num σ a.mid = m.mid and a.arid = ar.arid and ar.nationality = m.region and ar.birth_year - ar.death_year \geq \uparrow \circ and ar.birth_year - ar.death_year \leq \uparrow \circ ((ρ m Movie × ρ a Acting) × ρ ar Artist)

Y; AVG(rate)—average
1 row

P ration
2 rows

P ration
3 rows

Thum
1 row

Y; COUNT(r)—num
1 row

Y rows

2 15 and ar birth_year - ar death_year ≤ 20

O rows

X 315 rows

T rawq_ratings
3 rows

Artist
9 rows

Wovie Rating
5 rows

Froms

 π title, tot σ tot > \circ γ Movie.title; COUNT(*) \rightarrow tot σ Artist.gender = 'male' ((Movie \bowtie Movie.mid = Acting.mid Acting) \bowtie Acting.arid = Artist.arid Artist)

 π title σ Movie.genres = 'Drama' and Director.last_name = 'Kubrick' (Movie \bowtie Movie.did = Director.did Director) \cup π title σ Movie.genres = 'Mystery' and Director.last_name = 'Hitchcock' (Movie \bowtie Movie.did = Director.did Director)

 π Artist.first_name, Artist.last_name σ Artist.last_name = Director.last_name (((Artist \bowtie Artist.arid = Acting.arid Acting) \bowtie Acting.mid = Movie.mid Movie) \bowtie Movie.did = Director.did Director)