**SQL QUERIES**

**TREND ANALYSIS :**

(1)

SELECT start\_year,

AVG(CASE WHEN runtime\_minutes <> -1 THEN runtime\_minutes ELSE NULL END) AS average\_runtime

FROM DIM\_MOVIES

GROUP BY start\_year

ORDER BY start\_year;

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(2)

SELECT dm.start\_year, AVG(fr.average\_rating) AS average\_rating

FROM dim\_movies dm, fact\_ratings fr

WHERE dm.movie\_sk = fr.movie\_sk

GROUP BY dm.start\_year

ORDER BY average\_rating desc;

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(3)

SELECT start\_year, COUNT(\*) AS number\_of\_movies

FROM dim\_movies

GROUP BY start\_year

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**GENRE ANALYSIS :**

(1)

SELECT g.genre, AVG(fr.average\_rating) AS average\_rating

FROM DIM\_GENRE\_TYPES g

JOIN bridge\_genre bg ON g.genre\_SK = bg.genre\_SK

JOIN dim\_movies dm ON bg.movie\_sk = dm.movie\_sk

JOIN fact\_ratings fr ON dm.movie\_sk = fr.movie\_sk

GROUP BY bg.genre\_sk

ORDER BY average\_rating DESC;

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**PERFORMANCE METRICS :**

(1)

SELECT dm.runtime\_minutes, AVG(fr.average\_rating) AS average\_rating

FROM dim\_movies dm

JOIN fact\_ratings fr ON dm.movie\_sk = fr.movie\_sk

GROUP BY dm.runtime\_minutes

ORDER BY average\_rating DESC;

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**DIRECTORS SUCCESS METRICS :**

(1)

SELECT ccd.person\_sk, count(DISTINCT dm.movie\_sk) as count\_of\_movies

FROM cast\_crew\_details ccd

JOIN dim\_movies dm ON ccd.movie\_SK = dm.movie\_sk

JOIN FACT\_RATINGS fr ON dm.movie\_sk = fr.movie\_sk

JOIN DIM\_PROFESSION\_TYPES dp ON ccd.profession\_sk = dp.profession\_sk

WHERE dp.profession = 'director'

AND fr.average\_rating > 7

GROUP BY ccd.person\_sk

ORDER BY count\_of\_movies DESC

LIMIT 10;

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**ACTOR AND ACTRESS FILM RECORD :**

(1)

SELECT ccd.person\_sk, count(DISTINCT dm.movie\_sk) as count\_of\_movies

FROM cast\_crew\_details ccd

JOIN dim\_movies dm ON ccd.movie\_SK = dm.movie\_sk

JOIN FACT\_RATINGS fr ON dm.movie\_sk = fr.movie\_sk

JOIN DIM\_PROFESSION\_TYPES dp ON ccd.profession\_sk = dp.profession\_sk

WHERE (dp.profession = 'actor' OR dp.profession = 'actress')

AND fr.average\_rating<7 and fr.average\_rating>4

GROUP BY ccd.person\_sk

ORDER BY count\_of\_movies DESC

LIMIT 10

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(2)

(SELECT ccd.person\_sk, dp.profession, count(DISTINCT ccd.movie\_SK) as count\_of\_movies, avg(fr.average\_rating) as average\_rating

FROM CAST\_CREW\_DETAILS ccd

JOIN dim\_movies dm ON ccd.movie\_sk = dm.movie\_sk

JOIN FACT\_RATINGS fr ON dm.movie\_sk = fr.movie\_sk

JOIN DIM\_PROFESSION\_TYPES dp ON ccd.profession\_sk = dp.profession\_sk

WHERE dp.profession = 'actor'

GROUP BY ccd.person\_sk

ORDER BY average\_rating DESC

LIMIT 5)

UNION

(SELECT ccd.person\_sk, dp.profession, count(DISTINCT ccd.movie\_SK) as count\_of\_movies, avg(fr.average\_rating) as average\_rating

FROM CAST\_CREW\_DETAILS ccd

JOIN dim\_movies dm ON ccd.movie\_sk = dm.movie\_sk

JOIN FACT\_RATINGS fr ON dm.movie\_sk = fr.movie\_sk

JOIN DIM\_PROFESSION\_TYPES dp ON ccd.profession\_sk = dp.profession\_sk

WHERE dp.profession = 'actress'

GROUP BY ccd.person\_sk

ORDER BY average\_rating DESC

LIMIT 5)

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