Elevate Labs Data Analyst Internship
TASK 3

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Objective: Use SQL queries to extract and analyze data from a database.

Dataset: Movies

Tools: SQLite

Deliverables: SQL queries in a SQL file + screenshots of output

SELECT, WHERE, ORDER BY, GROUP BY

Display all movies

movie_id	title	genre	year
1	Inception	Sci-Fi	2010
2	Titanic	Romance	1997
3	The Dark Knight	Action	2008
4	Interstellar	Sci-Fi	2014
5	Avengers	Action	2012

Display movies released after 2005

title	year
Inception	2010
The Dark Knight	2008
Interstellar	2014
Avengers	2012

Display movies sorted by year (latest)

title	year
Interstellar	2014
Avengers	2012
Inception	2010
The Dark Knight	2008
Titanic	1997

Display number of movies per genre

genre	total_movies
Action	2
Romance	1
Sci-Fi	2

JOINS (INNER, LEFT)

Display movies with their ratings (INNER JOIN)

title	rating
Inception	8.8
Titanic	7.8
The Dark Knight	9
Interstellar	8.6
Avengers	8

Display all movies with their actors (LEFT JOIN)

title	actor_name
Inception	Leonardo DiCaprio
Titanic	Leonardo DiCaprio
The Dark Knight	Christian Bale
Interstellar	Matthew McConaughey
Avengers	Robert Downey Jr.

SUBQUERY

Display movies with rating above average

title
Inception
The Dark Knight
Interstellar

AGGREGATE FUNCTIONS

Display average movie rating

average_rating
8.440000000000001

Display highest rated movie

title	rating
The Dark Knight	9

VIEW

Display movie summary using view

title	genre	year	rating
Inception	Sci-Fi	2010	8.8
Titanic	Romance	1997	7.8
The Dark Knight	Action	2008	9
Interstellar	Sci-Fi	2014	8.6
Avengers	Action	2012	8