Group -12
IMDb (Internet Movie Database)

Business Database

BY

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EXECUTIVE SUMMARY

The IMDB database project aims to create a comprehensive and user-friendly platform for movie enthusiasts to browse and search through an extensive collection of movie information. The project will involve designing and implementing a database system that stores and organizes movie data, including details such as movie titles, cast and crew information, release dates, ratings, reviews, and more.

Conceptual, logical and physical models were developed, and database design features were implemented to retrieve valuable insights about customers, Membership plans and reviews. It includes many features such as Which Celebrity is having better ranking in IMDB when compared with others. So that focusing on that celebrity updates can increase the company's revenue.

The platform will feature a user-friendly interface that allows users to search for movies using various criteria, such as genre, year, rating, and keywords. Additionally, users will be able to rate and review movies, creating a dynamic and interactive community experience.

Overall, the project's outcome was a comprehensive database that supports IMDB business requirements and allows for future scalability and feature expansion.
The implemented database design features provide valuable insights into customer behavior and other trends including the celebrity updates and talent hiring using imdb_pro enabling the company to make data-driven decisions to improve its operations and profitability.

HISTORY OF IMDb

IMDb (Internet Movie Database) is an online database of information related to films, television programs, and video games. It was founded in 1990 by Col Needham, a British film fan and computer programmer, and started as a personal project for him to keep track of the films he had watched and the actors he admired.

Initially, IMDb was accessible only on the Usenet (online discussion forum) and was called the "Rec.arts.movies" movie database." Needham and a small group of contributors manually added information to the database and people could access it by downloading the lists and reading them on their computers.

It was later moved to a standalone website in 1993, and the name was changed to IMDb.
Needham added more information, such as cast and crew credits, plot summaries, and user reviews. He also introduced a rating system, which allowed users to rate movies on a scale of one to ten.

As IMDb gained popularity, it moved to the World Wide Web and began accepting contributions from users around the world. By 1996, IMDb had over 10,000 titles in its database.

IMDb was purchased by Amazon.com in 1998, which aided in the site's continued growth and development. IMDb received support from Amazon in the form of finance, resources, and funding for the site's expansion into new markets including video games. IMDb started introducing additional features including reviews, discussion boards, and lists of the best movies. It also increased the number of international movies and TV shows in its database.
Since then, Amazon's buying capabilities have been connected with the website, enabling customers to buy movies and TV series directly from it. IMDb introduced its Pro service in 2002, which offers knowledgeable data on individuals and organizations in the entertainment business.

IMDb now has over 200 million unique visitors per month and supports many languages. Also, it has grown to incorporate information on video games. It keeps adding new features and material, such as trailers, photo galleries, and streaming possibilities. For fans of movies and television as well as a useful resource for business professionals, it continues to be a leading source of information.

INTRODUCTION TO IMDb APPLICATION

IMDB Application

IMDb offers both a website and a mobile application that allow users to search and browse information on movies, TV shows, and other entertainment content. The IMDb app is available for free on both Android and iOS platforms.

The IMDb app provides users with quick access to a wealth of information on movies and TV shows, including ratings, reviews, cast and crew details, and trivia. Users can also create watchlists of movies and TV shows they want to see, and receive personalized recommendations based on their viewing history.

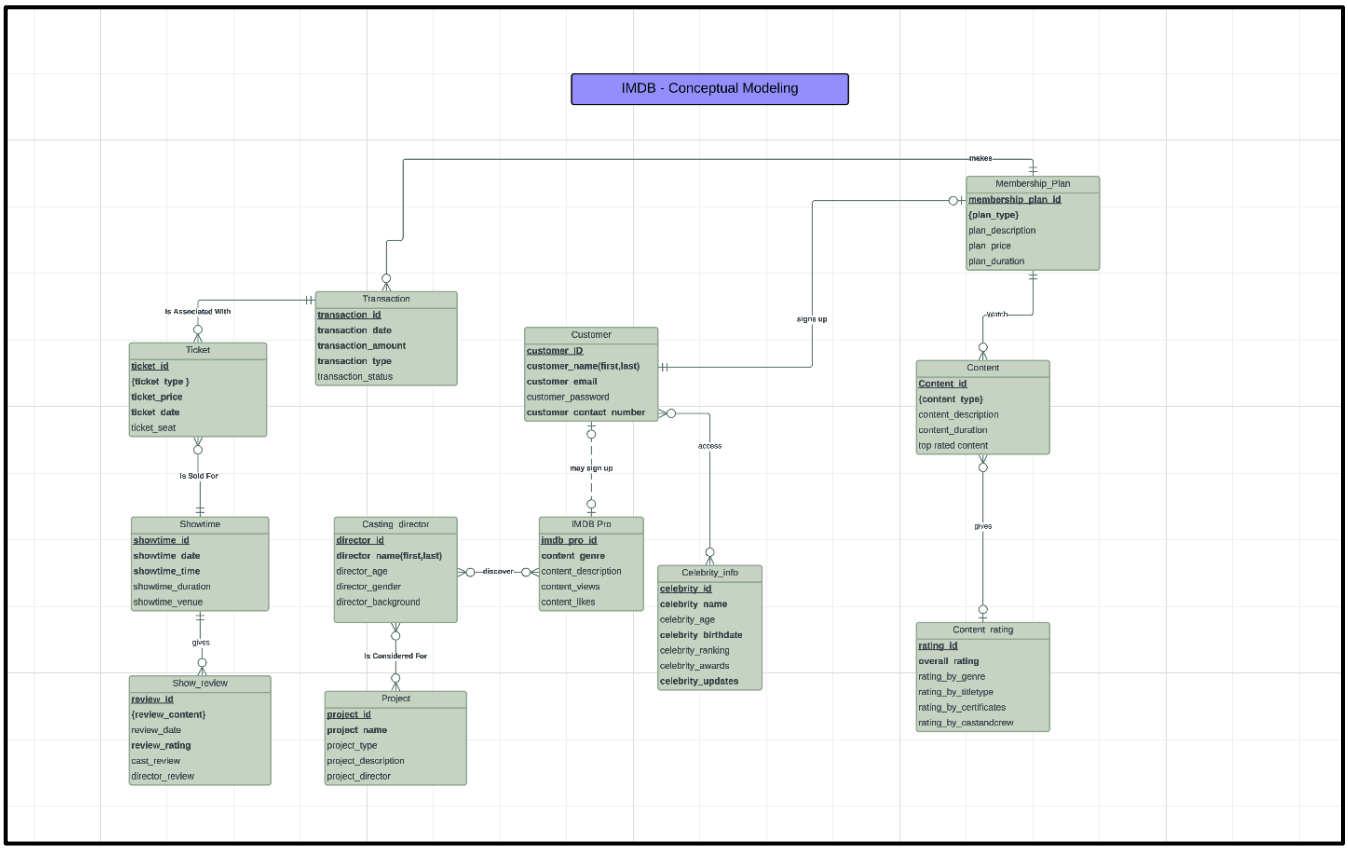
One of the unique features of the IMDb app is its ability to recognize movies and TV shows by their poster or DVD cover. Users can simply point their smartphone camera at the cover art of a movie or TV show, and the app will instantly provide them with information on the title, cast, and crew.

Additionally, the IMDb app offers a social aspect, allowing users to rate and review movies and TV shows, and engage in discussions with other users. Overall, the IMDb app is a comprehensive resource for movie and TV lovers, offering a wealth of information and features in a user-friendly interface.

INITIAL BUSINESS REQUIREMENTS

- Movies and TV shows, video games, showtimes and tickets, podcasts, music videos, awards & events, and celebrity news are just a few of the categories in the IMDB application that we are now constructing for the business module.
- For the scope of our project, we limited our prioritized requirements to just Business pod.
- In addition to having a customer name (first and last name), email account, and a password, customers can also join up using their Facebook, Google, Apple, and Amazon accounts.
- When signing up for one of the membership plans, customers have the option of making either a yearly or monthly commitment to the service.
- Casting directors, producers, and others will find it simpler to find and hire talent from various backgrounds for their projects.
- Customer must be able to buy the Tickets for Movies and Events.
- The customer must be able to view his transactional information.
- The customer can view a summary and description of each category, including events and video games.
- Just after watching a television program or movie, customers have the opportunity to cast a vote, and IMDB will then publish reviews with star ratings ranging from 1 to 10 based on the total number of votes received.

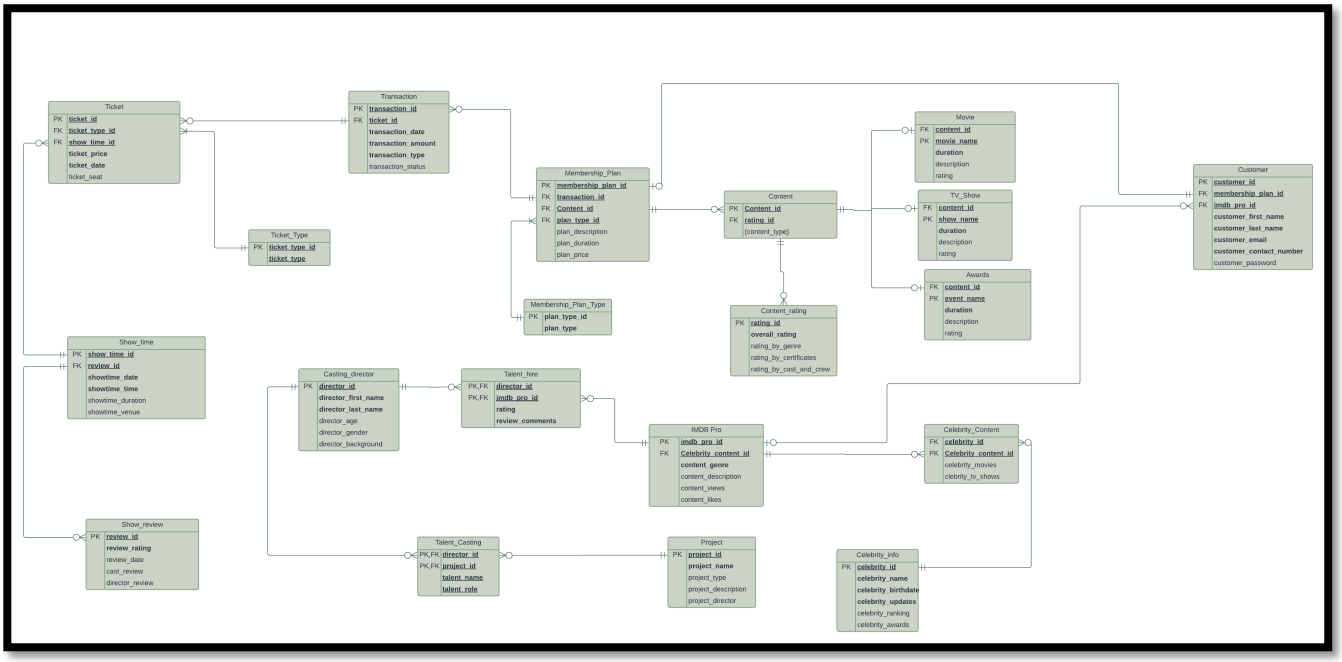
CONCEPTUAL MODEL



The conceptual (entity-relationship) model shown above indicates the initial tables necessary for database generation, as well as the relationships between the tables. All the green tables represent normal tables, and those in yellow represent subsets of a table - in this case, subsets of the content table where movies, tv shows and award shows inherit the attributes of the content table but do not share attributes with each other. Additionally of note, the IMDB pro table is a weak entity of the IMDB table.

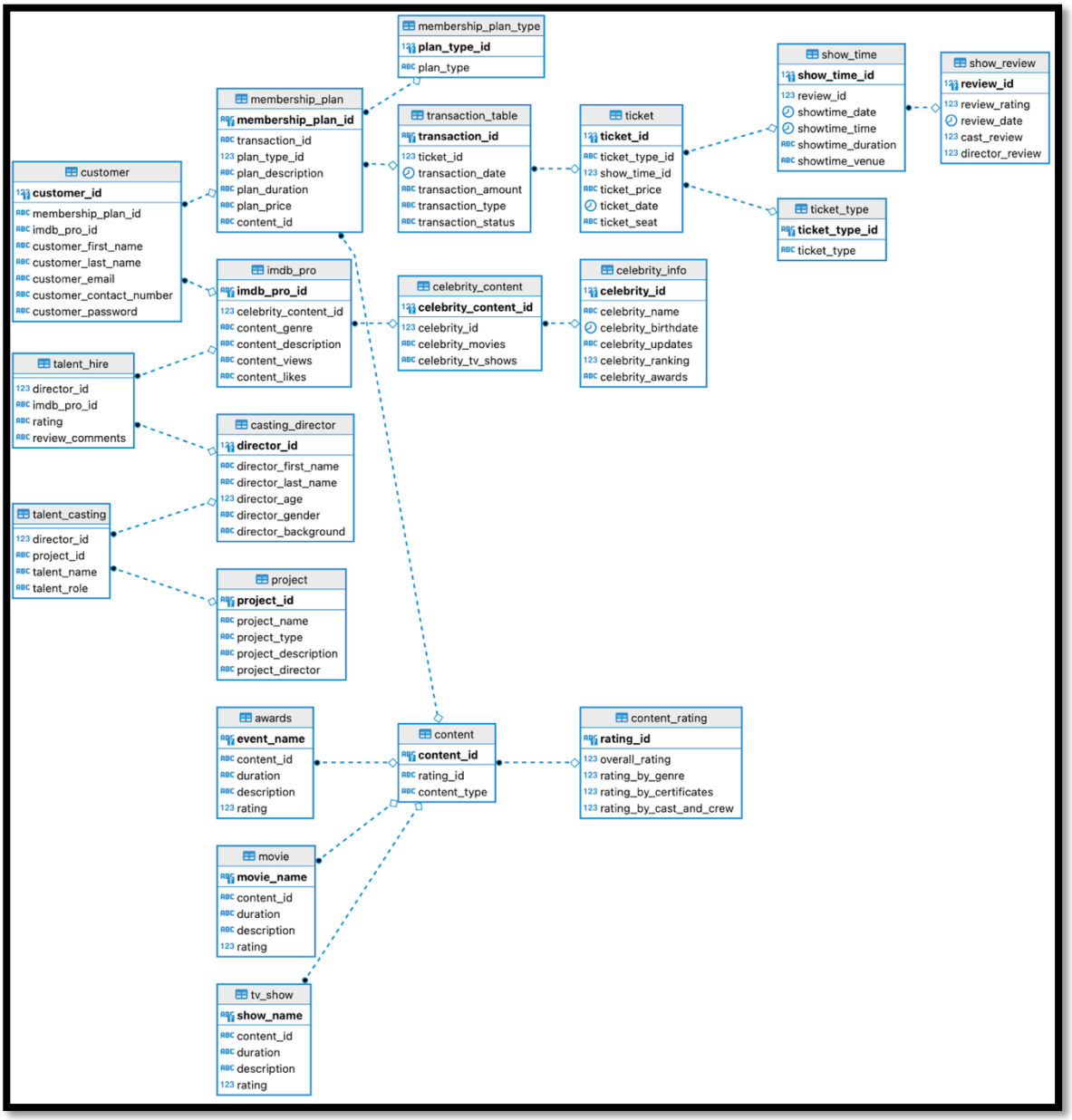
IMDb Pro is focused on providing services and information to entertainment industry professionals, with features such as celebrity information, uploading individual content. The model is designed to facilitate the casting and production of film and television projects, while providing industry insights and analytics to help professionals make informed decisions.

LOGICAL MODEL



The logical model shown here is an extension of the conceptual model shown above after the model is converted to third-normal form (3NF) in order to eliminate data redundancy, inconsistencies and anomalies that can arise when data is stored in denormalized form. The 3NF is a widely used normalization technique in database design that can help to ensure data integrity, maintainability and scalabity. and the primary and foreign keys are added. The color coding described above remains consistent. Few tables were added between many-to-many relationships to support converting the model to 3NF.

PHYSICAL MODEL



The logical model is dissected into relevant metadata by the physical model shown above, which may then be sent to the database. Some primary keys were set as an integer type, but others were set as varchar to support the use of all alphanumeric values as necessary.

Most other attributes were defined to be char or varchar, while attributes that could be more strictly controlled (non-customer side attributes) were defined as other attribute types when it made sense

DATABASE TABLES

Customer

	customer_id	membership_plan_id	imdb_pro_ic	customer_first_name	customer_last_name	customer_email	customer_contact_number	customer_password
1	1	B10	123456	John	Doe	john.doe@email.com	+1-555-1234	password123
2	2	P60	789012	Jane	Smith	jane.smith@email.com	+1-555-5678	password456
3	3	B10	345678	Bob	Johnson	bob.johnson@email.cc	+1-555-9012	password789
4	4	B10	901234	Sarah	Lee	sarah.lee@email.com	+1-555-3456	passwordabc
5	5	P60	567890	Mike	Chen	mike.chen@email.com	+1-555-7890	passworddef
6	6	B10	789012	Alice	Smith	alice.smith@email.com	+1-555-1234	password123
7	7	P60	345678	Bob	Johnson	bob.johnson@email.cc	+1-555-5678	password456
8	8	B10	123456	Charlie	Brown	charlie.brown@email.c	+1-555-9012	password789
9	9	B10	901234	David	Lee	david.lee@email.com	+1-555-2345	password234
10	10	P60	567890	Emily	Nguyen	emily.nguyen@email.c	+1-555-6789	password567
11	11	B10	234567	Frank	Garcia	frank.garcia@email.co	+1-555-1234	password890
12	12	P60	890123	Grace	Davis	grace.davis@email.cor	+1-555-5678	password123
13	13	B10	456789	Henry	Smith	henry.smith@email.cor	+1-555-9012	password456
14	14	B10	901234	Isabella	Jones	isabella.jones@email.c	+1-555-2345	password234
15	15	P60	567890	Jacob	Wilson	jacob.wilson@email.co	+1-555-6789	password567
16	16	B10	234567	Kayla	Gonzalez	kayla.gonzalez@email.	+1-555-1234	password890
17	17	P60	890123	Liam	Davis	liam.davis@email.com	+1-555-5678	password123
18	18	B10	456789	Mia	Johnson	mia.johnson@email.co	+1-555-9012	password456
19	19	P60	123456	Oliver	Martinez	oliver.martinez@email.	+1-555-7890	password789
20	20	G100	789012	Sophiab	Brown	sophia.brown7@email.	+1-555-3457	password01290
21	21	P20	789012	Sophia	Brownie	sophia.brown8@email	+1-555-3458	password01KP
22	22	G100	789012	Sophiabc	Browncloud	sophia.brown9@email	+1-555-3459	password01876

Membership_plan

	membership_plan_id	transaction_id	plan_type_id	plan_description	plan_duration	plan_price	content_id
1	B10	TXN001	1	Basic Plan	1 month	$9.99	M4590
2	P60	TXN002	2	Premium Plan	6 months	$59.99	TV394
3	G100	TXN003	3	Gold Plan	12 months	$99.99	EVENTS67
4	P20	TXN004	4	Platinum Plan	1 month	$19.99	TV394
5	S30	TXN005	5	Silver Plan	3 months	$29.99	EVENTS67

Membership_plan_type

	plan_type_id	plan_type
1	1	Basic plan with limitations
2	2	Customized plan 6 months with benefits
3	3	Customized plan 12 months with benefits
4	4	Basic plan with no limitations
5	5	3 months basic plan

AWARDS

	content_id	event_name	duration	description	rating
1	EVENTS67	Academy Awards	3 hours	Annual awards ceremony recognizing excellence in cinematic achievements	4
2	EVENTS67	Emmy Awards	4 hours	Annual awards ceremony recognizing excellence in television programming	5
3	EVENTS67	Grammy Awards	3.5 hours	Annual awards ceremony recognizing excellence in the music industry	4
4	EVENTS67	Tony Awards	3 hours	Annual awards ceremony recognizing excellence in live Broadway theater	3
5	EVENTS67	Golden Globe Awards	3 hours	Annual awards ceremony recognizing excellence in film and television	4
6	EVENTS67	Screen Actors Guild Awards	2 hours	Annual awards ceremony recognizing outstanding performances in film and television	4
7	EVENTS67	MTV Video Music Awards	3 hours	Annual awards ceremony recognizing achievements in the music video industry	3
8	EVENTS67	People\s Choice Awards	2 hours	Annual awards ceremony where winners are determined by public vote	3
9	EVENTS67	Cannes Film Festival	10 days	Annual film festival featuring screenings and competition of international films	5
10	EVENTS67	Oscars	3.5 hours	Annual awards ceremony recognizing excellence in the film industry	5

TRANSACTION

	transaction_id	ticket_id	transaction_date	transaction_amount	transaction_type	transaction_status
1	TXN001	101	2022-01-01	100.00	Credit	Completed
2	TXN002	102	2022-01-02	200.00	Debit	Completed
3	TXN003	103	2022-01-03	50.00	Credit	Pending
4	TXN004	104	2022-01-04	300.00	Debit	Completed
5	TXN005	105	2022-01-05	150.00	Credit	Completed
6	TXN006	106	2022-01-06	75.00	Credit	Pending
7	TXN007	107	2022-01-07	250.00	Debit	Completed
8	TXN008	108	2022-01-08	125.00	Credit	Completed
9	TXN009	109	2022-01-09	400.00	Debit	Pending
10	TXN010	110	2022-01-10	50.00	Credit	Completed
11	TXN011	111	2022-01-11	100.00	Credit	Completed
12	TXN012	112	2022-01-12	150.00	Debit	Pending
13	TXN013	113	2022-01-13	75.00	Credit	Completed
14	TXN014	114	2022-01-14	200.00	Debit	Completed
15	TXN015	115	2022-01-15	50.00	Credit	Pending

TICKET

	ticket_type_id	ticket_id	show_time_id	ticket_price	ticket_date	ticket_seat
1	TT001	101	1	30.00	2023-01-01	A1
2	TT002	102	1	75.00	2023-01-01	VIP1
3	TT001	103	2	25.00	2023-02-01	B3
4	TT003	104	2	20.00	2023-02-01	S2
5	TT001	105	3	35.00	2023-03-01	C7
6	TT004	106	3	15.00	2023-03-01	R4
7	TT001	107	4	40.00	2023-04-01	D5
8	TT005	108	4	20.00	2023-04-01	G2
9	TT001	109	5	45.00	2023-05-01	E8
10	TT002	110	5	80.00	2023-05-01	VIP2
11	TT002	111	6	70.00	2023-06-01	VIP3
12	TT001	112	6	30.00	2023-06-01	F6
13	TT004	113	7	18.00	2023-07-01	T8
14	TT003	114	7	22.00	2023-07-01	S6
15	TT001	115	8	40.00	2023-08-01	A3
16	TT005	116	8	16.00	2023-08-01	G4
17	TT001	117	9	35.00	2023-09-01	B8
18	TT002	118	9	80.00	2023-09-01	VIP4
19	TT001	119	10	30.00	2023-10-01	C5
20	TT004	120	10	14.00	2023-10-01	R6

TICKET_TYPE

	ticket_type_id	ticket_type
1	TT001	General Admission
2	TT002	VIP
3	TT003	Student
4	TT004	Senior
5	TT005	Group

SHOWTIME

	show_time_id	review_id	showtime_date	showtime_time	showtime_duration	showtime_venue
1	1	1	2022-01-10	19:00:00	2 hours	Theater A
2	2	2	2022-02-18	20:30:00	1.5 hours	Theater B
3	3	3	2022-03-25	18:00:00	2.5 hours	Theater C
4	4	4	2022-04-08	21:00:00	2 hours	Theater A
5	5	5	2022-05-20	19:30:00	3 hours	Theater B
6	6	6	2022-06-27	18:30:00	1.5 hours	Theater C
7	7	7	2022-07-11	20:00:00	2 hours	Theater A
8	8	8	2022-08-16	19:30:00	2.5 hours	Theater B
9	9	9	2022-09-24	18:00:00	2 hours	Theater C
10	10	10	2022-10-31	21:00:00	1.5 hours	Theater A
11	11	11	2023-01-15	19:30:00	2 hours	Theater B
12	12	12	2023-02-22	20:00:00	1.5 hours	Theater C
13	13	13	2023-03-29	18:30:00	2.5 hours	Theater A
14	14	14	2023-04-12	21:00:00	2 hours	Theater B
15	15	15	2023-05-24	19:00:00	3 hours	Theater C
16	16	16	2023-06-30	20:00:00	1.5 hours	Theater A
17	17	17	2023-07-14	18:30:00	2 hours	Theater B
18	18	18	2023-08-19	20:30:00	2.5 hours	Theater C
19	19	19	2023-09-27	19:00:00	2 hours	Theater A
20	20	20	2023-11-01	21:30:00	1.5 hours	Theater B

SHOW_REVIEW

	review_id	review_rating	review_date	cast_review	director_review
1	1	8	2022-01-05	7	9
2	2	6	2022-02-12	5	7
3	3	9	2022-03-20	8	9
4	4	7	2022-04-02	6	8
5	5	10	2022-05-18	9	10
6	6	5	2022-06-25	4	6
7	7	8	2022-07-09	8	7
8	8	7	2022-08-14	7	8
9	9	9	2022-09-22	9	9
10	10	6	2022-10-30	6	7
11	11	8	2022-11-15	7	9
12	12	5	2022-12-22	4	7
13	13	9	2023-01-30	8	9
14	14	7	2023-02-13	6	8
15	15	10	2023-03-24	9	10
16	16	5	2023-04-30	4	6
17	17	8	2023-05-15	8	7
18	18	7	2023-06-20	7	8
19	19	9	2023-07-28	9	9
20	20	6	2023-08-30	6	7

IMDB_PRO

	imdb_pro_id	celebrity_content_id	content_genre	content_description	content_views	content_likes
1	123456	1	Comedy	A hilarious comedy	100000	50000
2	234567	2	Drama	An intense drama	50000	25000
3	345678	3	Action	An explosive action movie	75000	35000
4	456789	4	Romance	A heartwarming romance	90000	45000
5	567890	5	Horror	A spine-chilling horror	60000	30000
6	678901	6	Sci-Fi	An epic science fiction adventure	80000	40000
7	789012	7	Thriller	A nail-biting thriller	70000	35000
8	890123	8	Mystery	A gripping mystery	65000	32500
9	901234	9	Documentary	A fascinating documentary	55000	27500
10	012345	10	Animation	A charming animated film	85000	42500

CELEBRITY_CONTENT

	celebrity_id	celebrity_content_id	celebrity_movies	celebrity_tv_shows
1	1	1	Forrest Gump	Band of Brothers
2	2	2	Dreamgirls	Black Is King
3	3	3	The Wolf of Wall Street	Growing Pains
4	4	4	Maleficent	Mr. & Mrs. Smith
5	5	5	Jumanji: Welcome to the Jungle	Ballers
6	6	6	Harry Potter and the Sorcerers Stone	The Circle
7	7	7	Thor:Ragnarok	Home and Away
8	8	8	Silver Linings Playbook	The Bill Engvall Show
9	9	9	Iron Man	Ally McBeal
10	10	10	Marriage Story	Euphoria
11	11	11	Top Gun	Mission: Impossible - The Series
12	12	12	The Wolf of Wall Street	Pan Am
13	13	13	Deadpool	Two Guys and a Girl

CELEBRITY_INFO

	celebrity_id	celebrity_name	celebrity_birthdate	celebrity_updates	celebrity_ranking	celebrity_awards
1	1	Tom Hanks	1956-07-09	Wins Golden Globe for Best Actor	10	Academy Award for Best Actor
2	2	Beyonce	1981-09-04	Announces new album release	8	Grammy Award for Album of the Year
3	3	Leonardo DiCaprio	1974-11-11	Begins filming new Martin Scorsese movie	9	Academy Award for Best Actor
4	4	Angelina Jolie	1975-06-04	Directs new movie for Netflix	7	Academy Award
5	5	Dwayne Johnson	1972-05-02	Becomes highest-paid actor in Hollywood	6	NAACP Image Award
6	6	Emma Watson	1990-04-15	Named UN Women Goodwill Ambassador	2	British Academy Film Award
7	7	Chris Hemsworth	1983-08-11	Starts filming new Thor movie	3	Teen Choice Award
8	8	Jennifer Lawrence	1990-08-15	Wins Golden Globe for Best Supporting Actress	11	Academy Award for Best Actress
9	9	Robert Downey Jr.	1965-04-04	retired from the Marvel Cinematic Universe	12	Golden Globe Award
10	10	Scarlett Johansson	1984-11-22	Set to star in upcoming Disney+ series	13	BAFTA Award
11	11	Tom Cruise	1962-07-03	Completes filming for Mission: Impossible 7	1	Golden Globe Award
12	12	Margot Robbie	1990-07-02	To star in pirates of carrebian	4	Critics Choice Movie Award
13	13	Ryan Reynolds	1976-10-23	Signs deal with Netflix to produce new movie	5	Peoples Choice Award

TALENT_HIRE

	director_id	imdb_pro_id	rating	review_comments
1	1	123456	8.5	Great acting skills
2	1	123456	9.0	A true professional
3	2	234567	7.5	Did a good job
4	2	234567	8.0	Talented and dedicated to their craft
5	3	345678	9.5	An absolute pleasure to work with you
6	4	456789	8.0	Solid performance, brought a lot to the role
7	4	456789	9.5	Amazing talent, added depth and complexity
8	5	567890	7.0	Good performance, but lacked chemistry with co-stars
9	5	567890	8.5	Very talented
10	6	678901	8.0	Professional and dedicated
11	7	789012	9.0	Extremely talented, delivered a standout performance
12	7	789012	7.5	Good performance, but could have been more polished
13	8	890123	8.5	Very professional
14	8	890123	9.5	One of the best actors I have worked with
15	9	901234	7.0	Did a decent job

CASTING_DIRECTOR

	director_id	director_first_name	director_last_name	director_age	director_gender	director_background
1	1	John	Doe	40	M	Film
2	2	Jane	Smith	35	F	Theatre
3	3	Robert	Johnson	45	M	Television
4	4	Sarah	Garcia	32	F	Film
5	5	David	Lee	50	M	Theatre
6	6	Emily	Nguyen	28	F	Television
7	7	Michael	Brown	55	M	Film
8	8	Alexandra	Kim	42	F	Theatre
9	9	Thomas	Wong	47	M	Film
10	10	Jessica	Liu	31	F	Television
11	11	William	Chen	36	M	Film
12	12	Maria	Gonzalez	53	F	Theatre
13	13	Christopher	Park	29	M	Television
14	14	Melissa	Ng	39	F	Film
15	15	William	Johnson	50	M	Film
16	16	Sophie	Martin	37	F	Theatre
17	17	Daniel	Nguyen	43	M	Television
18	18	Olivia	Chen	29	F	Film
19	19	Jonathan	Garcia	55	M	Theatre
20	20	Lena	Wang	34	F	Television

CONTENT

	content_id	rating_id	content_type
1	M4590	tt0012345	Movie
2	TV394	tt0054321	Tv
3	EVENTS67	tt0098765	Awards

TALENT_CASTING

	director_id	project_id	talent_name	talent_role
1	1	P001	Emma Stone	Lead Actress
2	1	P001	Ryan Gosling	Lead Actor
3	2	P002	Tom Hardy	Villain
4	2	P002	Margot Robbie	Supporting Actress
5	3	P003	Chris Evans	Superhero
6	4	P004	Scarlett Johansson	Lead Actress
7	4	P004	Chris Hemsworth	Lead Actor
8	5	P005	Angelina Jolie	Villain
9	5	P005	Brad Pitt	Supporting Actor
10	6	P006	Tom Hanks	Protagonist
11	7	P007	Tom Cruise	Lead Actor
12	7	P007	Margot Robbie	Lead Actress
13	8	P008	Meryl Streep	Protagonist
14	8	P009	Robert De Niro	Antagonist
15	9	P010	Daniel Craig	Spy

PROJECT

	project_id	project_name	project_type	project_description	project_director
1	P001	The Great Gatsby	Film	A romantic drama set in the roaring 20s	John Doe
2	P002	Hamlet	Theatre	A tragic play about a prince seeking revenge	Jane Smith
3	P003	Breaking Bad	Television	A crime drama about a high school chemistry teacher turned drug lord	Robert Johnson
4	P004	La La Land	Film	A romantic musical set in modern-day Los Angeles	Sarah Garcia
5	P005	Les Miserables	Theatre	A musical about love, redemption, and revolution in 19th century France	David Lee
6	P006	Stranger Things	Television	A sci-fi horror series set in the 1980s	Emily Nguyen
7	P007	The Irishman	Film	A crime epic spanning several decades	Michael Brown
8	P008	The Lion King	Theatre	A musical based on the Disney animated film	Alexandra Kim
9	P009	The Crown	Television	A historical drama about the reign of Queen Elizabeth II	Thomas Wong
10	P010	The Phantom of the Opera	Theatre	A musical about a mysterious figure haunting the Paris Opera House	Jessica Liu
11	P011	Inception	Film	A sci-fi action film about a thief who enters people's dreams	William Chen
12	P012	Wicked	Theatre	A musical based on the novel Wicked: The Life and Times of the Wicked Witch of the West	Maria Gonzalez
13	P013	Breaking Bad: El Camino	Film	A continuation of the Breaking Bad story following the events of the series finale	Christopher Park
14	P014	The Sopranos	Television	A crime drama about a New Jersey mobster and his family	Melissa Ng
15	P015	The Social Network	Film	A biographical drama about the founding of Facebook	William Johnson
16	P016	A Streetcar Named Desire	Theatre	A play about a fading Southern belle and her brutish brother-in-law	Sophie Martin
17	P017	The Queen\s Gambit	Television	A period drama about a young female chess prodigy in the 1950s	Daniel Nguyen
18	P018	The Sound of Music	Theatre	A musical based on the true story of the Von Trapp family during World War II	Olivia Chen
19	P019	The Godfather	Film	A crime drama about the Corleone family and their mafia empire	Jonathan Garcia
20	P020	The Importance of Being Earnest	Theatre	A play about mistaken identities and romance in Victorian England	Lena Wang

CONTENT_RATING

	rating_id	overall_rating	rating_by_genre	rating_by_certificates	rating_by_cast_and_crew
1	tt0012345	8	7	9	8
2	tt0054321	9	9	8	8
3	tt0098765	7	6	8	7
4	tt0123456	10	10	10	9
5	tt0212345	6	6	7	7
6	tt0312345	8	8	8	7
7	tt0412345	7	6	7	8
8	tt0512345	9	9	9	10
9	tt0612345	8	7	9	8
10	tt0712345	7	6	8	7
11	CR11	9	8	7	6
12	CR12	6	7	8	9
13	CR13	5	6	7	8
14	CR14	8	7	6	5
15	CR15	6	5	4	3

MOVIE

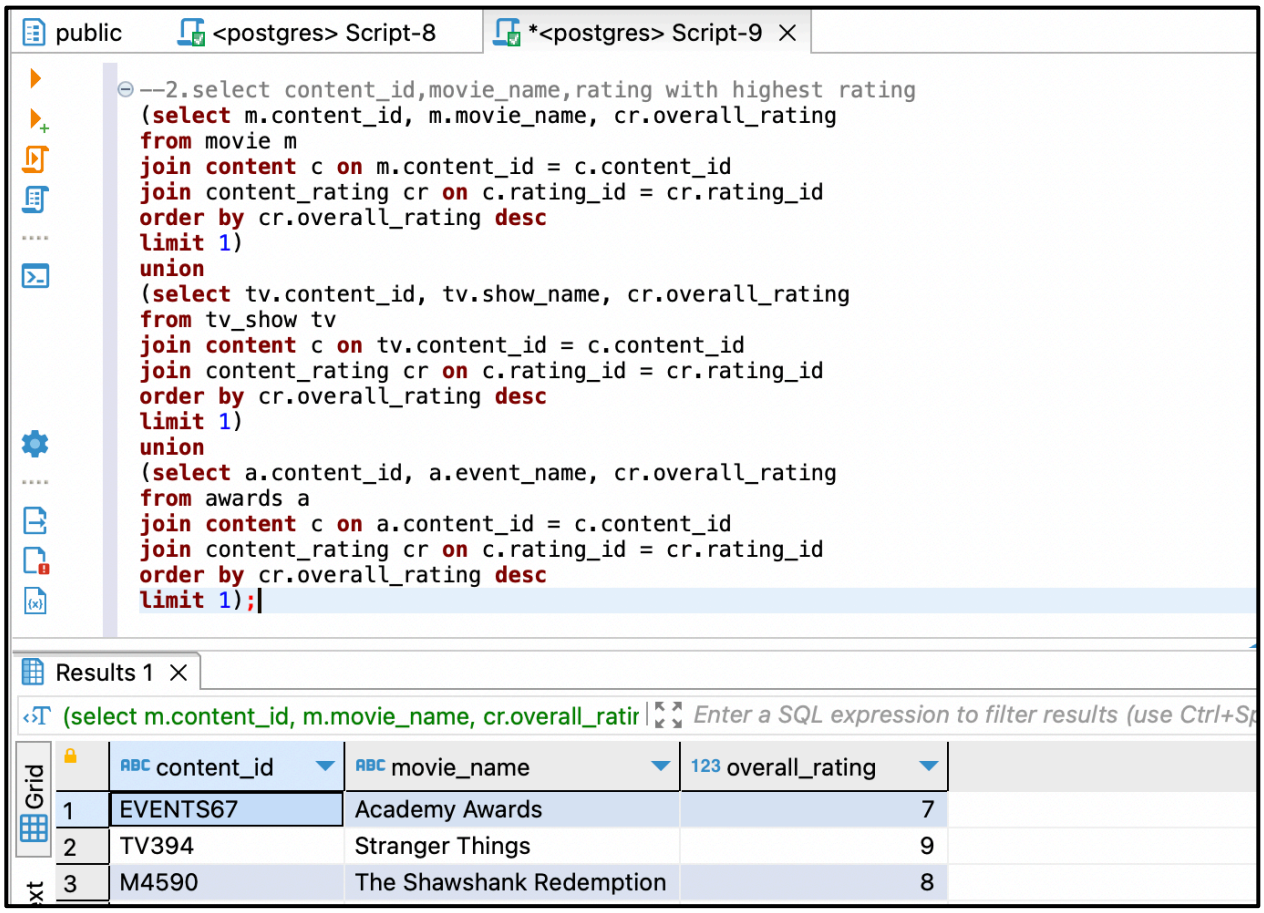
	content_id	movie_name	duration	description	rating
1	M4590	The Shawshank Redemption	2h 22min	Two imprisoned men bond over a number of years, finding solace and eventual redemption through acts o	9
2	M4590	The Godfather	2h 55min	An organized crime dynastys aging patriarch transfers control of his clandestine empire to his reluctant so	9
3	M4590	The Dark Knight	2h 32min	When the menace known as the Joker wreaks havoc and chaos on the people of Gotham, Batman must ac	8
4	M4590	The Godfather: Part II	3h 22min	The early life and career of Vito Corleone in 1920s New York City is portrayed, while his son, Michael, expa	9
5	M4590	12 Angry Men	1h 36min	A jury holdout attempts to prevent a miscarriage of justice by forcing his colleagues to reconsider the evid	8
6	M4590	The Dark Knight-2	2h 32min	When the menace known as the Joker wreaks havoc and chaos on the people of Gotham, Batman must ac	9
7	M4590	The Godfather-3	2h 55min	The aging patriarch of an organized crime dynasty transfers control of his clandestine empire to his reluct	9
8	M4590	The Lord of the Rings: The Fellowship of the Ring	2h 58min	A meek Hobbit from the Shire and eight companions set out on a journey to destroy the powerful One Ring	8
9	M4590	Forrest Gump	2h 22min	The presidencies of Kennedy and Johnson, the Vietnam War, the Watergate scandal and other historical e	8
10	M4590	Inception	2h 28min	A thief who steals corporate secrets through the use of dream-sharing technology is given the inverse tas	8

TV_SHOW

	content_id	show_name	duration	description	rating
1	TV394	Stranger Things	60 min	When a young boy disappears, his mother, a police chief, and his friends must confront terrifying supernatural forces in order to get hir	8
2	TV394	Game of Thrones	60 min	Nine noble families fight for control over the lands of Westeros, while an ancient enemy returns after being dormant for millennia.	9
3	TV394	Breaking Bad	49 min	A high school chemistry teacher diagnosed with inoperable lung cancer turns to manufacturing and selling methamphetamine in order	9
4	TV394	The Crown	58 min	Follows the political rivalries and romance of Queen Elizabeth IIs reign and the events that shaped the second half of the twentieth cent	8
5	TV394	The Witcher	60 min	Geralt of Rivia, a solitary monster hunter, struggles to find his place in a world where people often prove more wicked than beasts.	8
6	TV394	Friends	30 min	A sitcom about a group of friends living in New York City	8
7	TV394	The Office	30 min	A mockumentary-style sitcom about office life	8
8	TV394	The Family Man	30 min	A fascinating thriller with patriotism	9
9	TV394	mirzapur	94 min	A drama filmed in the north part of india	8
10	TV394	The Test	51 min	A documentary on border-gavaskar trophy	9

FEATURE-1

Select content_id, movie_name, rating with highest rating:



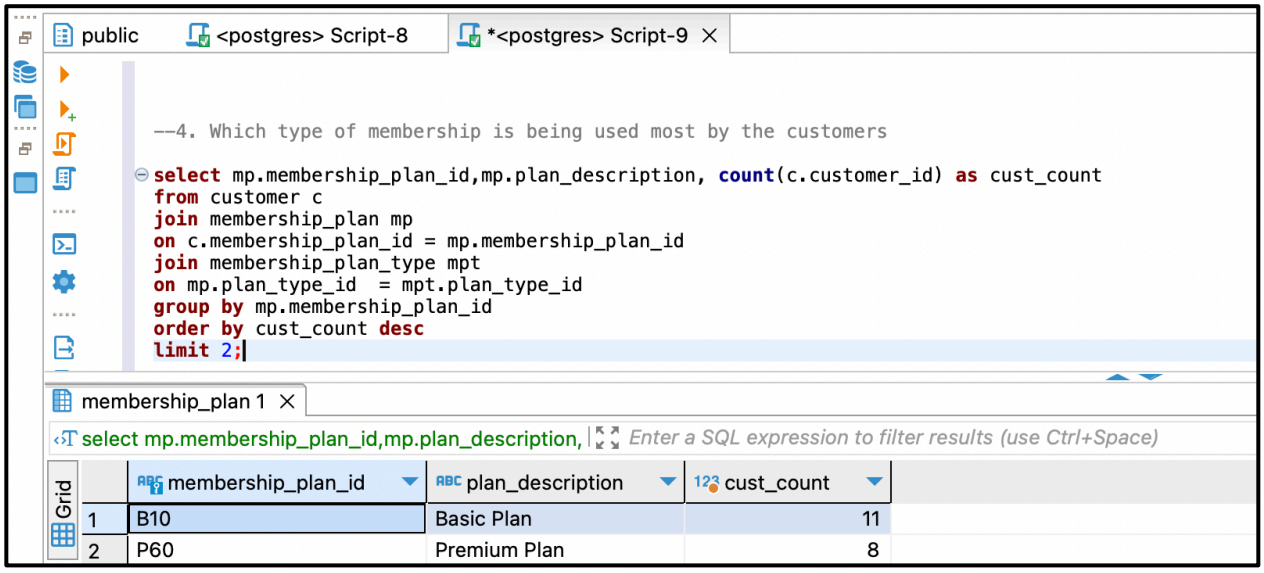
This feature of our database retrieves data of the highest rated movie, tv_show and awards events. The query joins four tables content, movie, tv_show and events to retrieve the required data.

This query can be modified to include additional columns or filters to further refine the data and provide more specific insights.

So Based on the above statistics IMDB is making sure to acquire the digital rights of the next seasons of tv shows and awards.

FEATURE-2

Which type of membership is being used most by the customers.



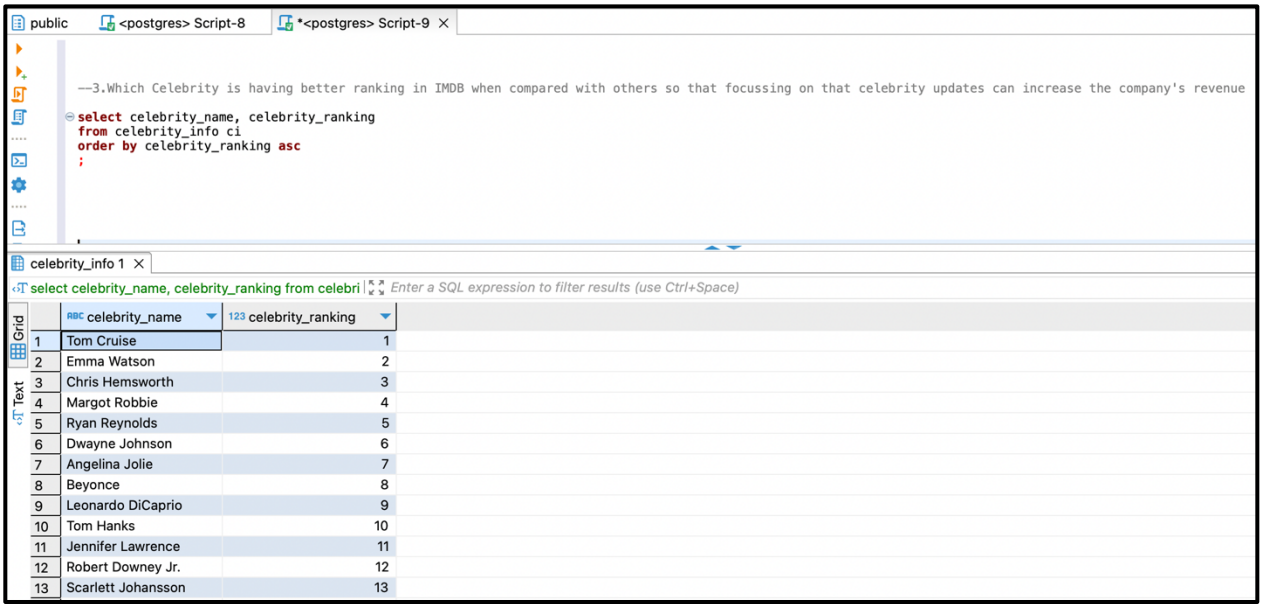
This feature of our database retrieves data of the top two membership plans which is used by the most of the customers. This query joins the two tables customer and membership_plan. Count function is used to count the number of customers based on the customer_id.

By considering above solution, we can conclude that Basic plan was the most popular plan with 11 customers and the platinum plan acquired the second most popular plan.

So in future we are going to focus on attracting the customers to take up the gold and silver plans and making sure to add more features to them.

FEATURE-3

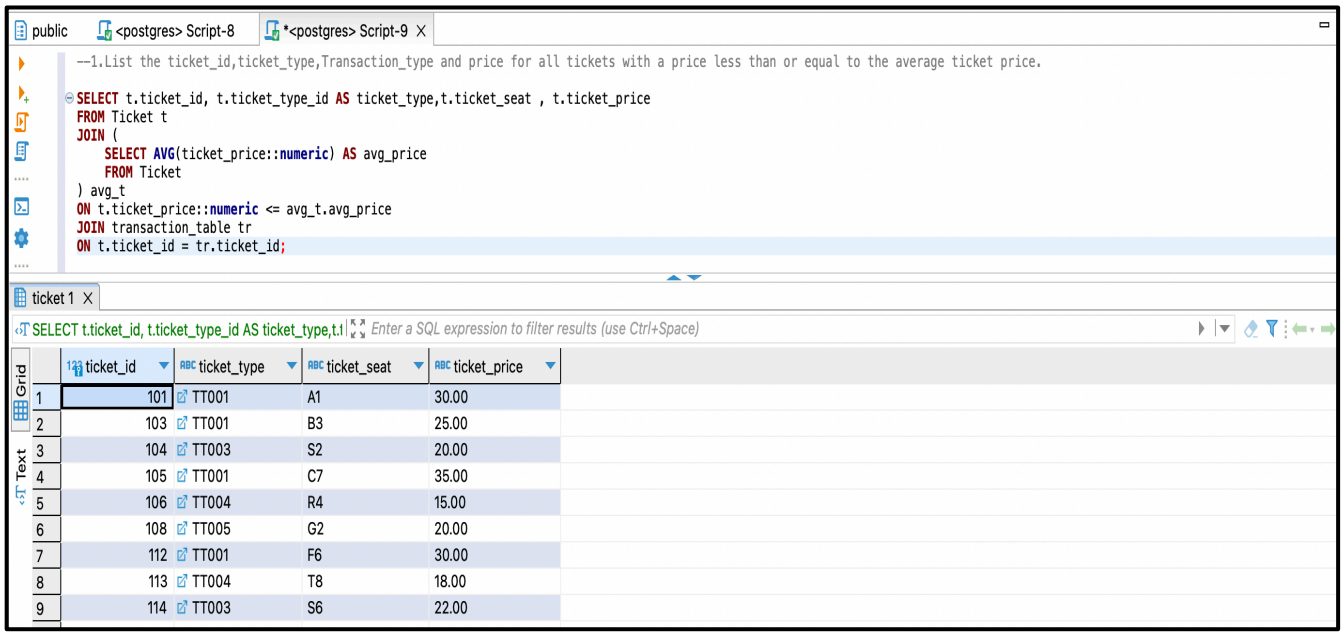
Which Celebrity is having better ranking in IMDB when compared with others.



This feature of our database retrieves data of the top ranked celebrities with their names and rank. The data is retrieved from celebrity_info table.
The main goal of this feature is to increase the updates and news on the top rated celebrities such as their upcoming films, Personal life and travel news.
so that focusing on that celebrity updates can increase the company's revenue.

FEATURE-4

List the ticket_id, ticket_type, Ticket_seat and price for all tickets with a price less than or equal to the average ticket price.



This feature of our database retrieves data of the prices of the show tickets which are less than or equal to the average ticket price.

This query joins two tables Ticket and transaction. From the above statistics we can conclude that when the ticket rates are lower than the average ticket cost, then most number of customers attracted to buy the tickets.

So in future we are planning to add more discounts on tickets and as well as on Membership_plans. Thus increasing the company's revenue.

Requirements Review

Identifying the business requirements: The first step we planned was to identify the business requirements of IMDB. This would involve understanding the day-to-day operations of the company and the types of data that are important for decision-making.

Analyze the data: Once the business requirements were identified, the next step was to analyze the data that is required to support these requirements. This would involve identifying the types of data that need to be collected, how it should be stored, and how it can be analyzed to provide insights.

Design the database schema: Based on the analysis of the data, the next step was to design the database schema conceptually and logically. This would involve determining the tables, columns, and relationships between them that are needed to store the data effectively and refine the models before creating the database.

Develop the database: Once the database schema was designed, the next step was to develop the database. This involved creating the tables, columns, and relationships between them using a database management system (DBMS) like DBeaver and Postgres SQL

Populate the database: After the database was developed, the next step was to populate it with data. This would involve extracting data from various sources within IMDB and inserting it into the appropriate tables and columns within the database.

Test the database: Once the database was populated with data, the next step was to test it to ensure it was functioning correctly. This would involve running queries and reports to validate that the data is accurate and can be retrieved effectively.

All the above requirements met the expectations which includes the testing the database by using some queries and features.

Ethical Considerations

Data privacy: IMDb contains personal information about actors, directors, and other individuals in the entertainment industry. We should ensure that we are complying with all relevant data privacy laws and regulations when collecting, storing, and analyzing this data.

Accuracy: It's essential to ensure that the data we collect and use is accurate and reliable. Misrepresenting or misinterpreting information could harm the reputation of individuals or the entertainment industry as a whole.

Consent: If we plan to use personal data in your IMDb project, we should obtain consent from the individuals concerned. This applies to any information that could potentially identify an individual, including names, contact information, or images.

Bias: Bias can have a significant impact on the data we collect and use in our IMDb project. We should be aware of potential biases in our data collection and analysis methods and work to mitigate them.

Transparency: Be transparent about the purpose of our IMDb project, what data we are collecting and using, and how we will use it. This can help build trust with your audience and stakeholders.

Harm: Ensure that our IMDb project does not harm any individuals, groups, or the entertainment industry as a whole. Consider potential negative consequences of our project and work to mitigate them.

Future developments and conclusion

Design and develop the login and registration system: Since customers can sign up using various social media accounts, you need to implement OAuth-based authentication. Additionally, you need to design a secure database schema to store the customer information.

Implement the payment system: To allow customers to buy tickets or subscribe to the service, you need to integrate a payment gateway. You can use popular payment gateways like PayPal, Stripe, or Braintree.

Develop the search and recommendation engine: To make it easier for casting directors, producers, and others to find and hire talent, you can implement a powerful search and recommendation engine. You can use machine learning algorithms and natural language processing (NLP) techniques to build a sophisticated recommendation engine.

Create the transaction history feature: To allow customers to view their transactional information, you need to design and develop a transaction history feature. This feature should allow customers to view their past purchases, subscription status, and payment history.

Develop the rating and review system: To enable customers to cast votes and publish reviews, you need to implement a rating and review system. You can use a star-based rating system and allow customers to submit written reviews as well.

In conclusion, our IMDB project requires a comprehensive set of features, including login and registration, payment, search and recommendation, transaction history, and rating and review. We can use various technologies and tools to implement these features, such as OAuth, payment gateways, machine learning, and NLP. By delivering these features, we can build a robust and user-friendly IMDB application that can attract a wide range of customers.

Appendix-1

Milestone	Tasks	Status	Team Members			
			Rawali	Kushal	Harsha	Bryce
1-Analysis						
1.1	Analysis and design stage, gather data and create system mockup	Done	1	1	1	1
1.2	Architecture design	Done	2	2	2	2
1.3	Design work plan (distribution of tasks to development teams)	Done	1	1	1	1
Sub-Total Hours			4	4	4	4
2-Development						
2.1	Create Conceptual Model	Done	1	1	3	
	Review Conceptual Model	Done	1		1	1
2.2	Create Logical Model	Done	3	1	1	
	Review Logical Model	Done	1	1	1	1
2.3	Create Physical Model	Done		1		
	Review Physical Model	Done	1		1	1
2.4	Gathering data for tables	Done		1		2
	Creating tables for different entity types	Done	1	2	1	2
	Inserting data into tables	Done	2	3	2	1
	Reviewing tables and inserted data	Done	1	1	1	1
Sub-Total Hours			11	10	11	9
3-Report and Presentation						
3.1	Preparing the final Report	Done	4	4	3	3
3.2	Reviewing the final Report	Done	2	2	2	2
	Preparing the Presentation	Done	2	2	3	1
	Reviewing the Presentation	Done	1	1	1	1
Sub-Total Hours			9	10	9	7
Total Hours			24	24	24	20

Appendix-2

SQL STATEMENTS FOR TABLES CREATION

```
DROP TABLE IF EXISTS Customer ;
create table Customer (
        customer_id INT not null,
        membership_plan_id VARCHAR(50),
        imdb_pro_id VARCHAR(50),
        customer_first_name VARCHAR(50),
        customer_last_name VARCHAR(50),
        customer_email VARCHAR(50),
        customer_contact_number VARCHAR(50),
        customer_password VARCHAR(50),
        primary KEY(customer_id)
);

select * from Customer;

ALTER TABLE Customer
ADD CONSTRAINT fk_memb_plan
FOREIGN KEY (membership_plan_id)
REFERENCES Membership_Plan (membership_plan_id),
ADD CONSTRAINT fk_imdb
FOREIGN KEY (imdb_pro_id)
REFERENCES IMDB_Pro (imdb_pro_id);

DROP TABLE IF EXISTS Membership_plan;
create table Membership_plan (
        membership_plan_id VARCHAR(50),
        transaction_id VARCHAR(50),
        plan_type_id INT,
        plan_description VARCHAR(50),
        plan_duration VARCHAR(50),
        plan_price VARCHAR(50),
        content_id VARCHAR(50),
        primary KEY(membership_plan_id)
```

```
);

ALTER TABLE Membership_plan
ADD CONSTRAINT fk_memb_transc
FOREIGN KEY (transaction_id)
REFERENCES Transaction_table (transaction_id),
ADD CONSTRAINT fk_mem_plan
FOREIGN KEY (plan_type_id)
REFERENCES Membership_Plan_Type (plan_type_id),
ADD CONSTRAINT fk_cont_id
FOREIGN KEY (content_id)
REFERENCES Content (content_id);

select * from Membership_plan;


DROP TABLE IF EXISTS Membership_Plan_Type;
create table Membership_plan_Type(
plan_type_id INT,
plan_type VARCHAR(50),
primary key(plan_type_id));

select * from Membership_plan_Type;

DROP TABLE IF EXISTS Transaction_table;
create table transaction_table (
	transaction_id VARCHAR(50),
	ticket_id INT,
	transaction_date DATE ,
	transaction_amount VARCHAR(50),
	transaction_type VARCHAR(50),
	transaction_status VARCHAR(50),
	primary key (transaction_id)
);

select * from Transaction_table;
```

```
ALTER TABLE Transaction_table
ADD CONSTRAINT fk_ticket_id
FOREIGN KEY (ticket_id)
REFERENCES Ticket(ticket_id);

DROP TABLE IF EXISTS Ticket;
create table Ticket (
	ticket_type_id VARCHAR(50),
	ticket_id INT,
	show_time_id INT ,
	ticket_price VARCHAR(50),
	ticket_date DATE,
	ticket_seat VARCHAR(50),
	primary key (ticket_id)
);

select * from Ticket;

ALTER TABLE Ticket
ADD CONSTRAINT fk_ticket_type_id
FOREIGN KEY (ticket_type_id)
REFERENCES Ticket_Type(ticket_Type_id),
ADD CONSTRAINT fk_showtime_id
FOREIGN KEY (show_time_id)
REFERENCES Show_time(show_time_id);



DROP TABLE IF EXISTS Ticket_Type;
create table Ticket_Type (
	ticket_type_id VARCHAR(50),
	ticket_type VARCHAR(50),
	primary key (ticket_type_id)
);

select * from Ticket_type;
```

```
DROP TABLE IF EXISTS Show_time;
create table Show_time (
	show_time_id INT,
	review_id INT,
	showtime_date DATE ,
	Showtime_time TIME,
	Showtime_duration VARCHAR(50),
	showtime_venue VARCHAR(50),
	primary key (Show_time_id)
);

select * from Show_time;
ALTER TABLE Show_time
ADD CONSTRAINT fk_show_time
FOREIGN KEY (review_id)
REFERENCES Show_review(review_id);



DROP TABLE IF EXISTS Show_review;
create table Show_review (
	review_id INT,
	review_rating INT,
	review_date DATE ,
	cast_review INT,
	director_review INT,
	primary key (review_id)
);

select * from Show_review;

DROP TABLE IF EXISTS IMDB_Pro;
create table IMDB_Pro (
	imdb_pro_id VARCHAR(50),
	Celebrity_content_id INT,
	content_genre VARCHAR(50) ,
	content_description VARCHAR(50),
```

```
	content_views VARCHAR(50),
	content_likes VARCHAR(50),
	primary key (imdb_pro_id)
);

select * from IMDB_Pro;
ALTER TABLE IMDB_Pro
ADD CONSTRAINT fk_celeb_content_id
FOREIGN KEY (Celebrity_content_id)
REFERENCES Celebrity_Content(Celebrity_content_id);


DROP TABLE IF EXISTS Celebrity_Content;
create table Celebrity_Content (
	celebrity_id INT,
	Celebrity_content_id INT ,
	celebrity_movies VARCHAR(50),
	celebrity_tv_shows VARCHAR(50),
	primary key(celebrity_content_id)
);

select * from Celebrity_Content;

ALTER TABLE Celebrity_Content
ADD CONSTRAINT fk_celeb_id
FOREIGN KEY (celebrity_id)
REFERENCES Celebrity_info(celebrity_id);


DROP TABLE IF EXISTS Celebrity_info;
create table Celebrity_info (
	celebrity_id INT,
	celebrity_name VARCHAR(50) ,
	celebrity_birthdate DATE,
	celebrity_updates VARCHAR(50),
	celebrity_ranking INT,
	celebrity_awards VARCHAR(50),
```

```
        primary KEY(celebrity_id)
);

select * from Celebrity_info;

DROP TABLE IF EXISTS Talent_hire;
create table Talent_hire (
        director_id INT,
        imdb_pro_id VARCHAR(50) ,
        rating VARCHAR(50),
        review_comments VARCHAR
        );

select * from Talent_hire;

ALTER TABLE Talent_hire
ADD CONSTRAINT fk_director_id
FOREIGN KEY (director_id)
REFERENCES Casting_director(director_id),
ADD CONSTRAINT fk_imdb_id
FOREIGN KEY (imdb_pro_id)
REFERENCES IMDB_Pro(imdb_pro_id)

DROP TABLE IF EXISTS Casting_director;
create table Casting_director (
        director_id INT,
        director_first_name VARCHAR(50) ,
        director_last_name VARCHAR(50),
        director_age INT,
        director_gender CHAR,
        director_background VARCHAR(50),
        primary key(director_id)
        );


select * from Casting_director;
```

```
DROP TABLE IF EXISTS Talent_Casting;
create table Talent_Casting (
        director_id INT,
        project_id VARCHAR(50) ,
        talent_name VARCHAR(50),
        talent_role VARCHAR(50)
        );

select * from Talent_Casting;

ALTER TABLE Talent_Casting
ADD CONSTRAINT fk_director2_id
FOREIGN KEY (director_id)
REFERENCES Casting_director(director_id),
ADD CONSTRAINT fk_project_id
FOREIGN KEY (project_id)
REFERENCES Project(project_id)


DROP TABLE IF EXISTS Project;
create table Project (
        project_id VARCHAR(50) ,
        project_name VARCHAR(50),
        project_type VARCHAR(50),
        project_description VARCHAR,
        project_director VARCHAR,
        primary key(project_id)
        );

select * from Project;

DROP TABLE IF EXISTS Content_rating;
create table Content_rating (
        rating_id VARCHAR(50) ,
        overall_rating INT,
        rating_by_genre INT,
        rating_by_certificates INT,
```

```
        rating_by_cast_and_crew INT,
        primary key(rating_id)
        );

select * from Content_rating;

DROP TABLE IF EXISTS Content;
create table Content (
        content_id VARCHAR(50) ,
        rating_id varchar(50),
        content_type VARCHAR(50),
        primary key(content_id)
        );

select * from Content;

ALTER TABLE Content
ADD CONSTRAINT fk_rating_id
FOREIGN KEY (rating_id)
REFERENCES Content_rating(rating_id);

DROP TABLE IF EXISTS Movie;
create table Movie (
        content_id VARCHAR(50) ,
        movie_name VARCHAR,
        duration VARCHAR,
        description VARCHAR,
        rating int,
        primary key(movie_name)
        );

select * from Movie;
ALTER TABLE Movie
ADD CONSTRAINT fk_contentmve_id
FOREIGN KEY (content_id)
REFERENCES Content(content_id);
```

```
DROP TABLE IF EXISTS TV_Show;
create table TV_Show (
        content_id VARCHAR(50) ,
        show_name VARCHAR,
        duration VARCHAR,
        description VARCHAR,
        rating int,
        primary key(show_name)
        );

select * from TV_Show;

ALTER TABLE TV_Show
ADD CONSTRAINT fk_contentshow_id
FOREIGN KEY (content_id)
REFERENCES Content(content_id);

DROP TABLE IF EXISTS Awards;
create table Awards (
        content_id VARCHAR(50) ,
        event_name VARCHAR,
        duration VARCHAR,
        description VARCHAR,
        rating int,
        primary key(event_name)
        );

select * from Awards;

ALTER TABLE Awards
ADD CONSTRAINT fk_contentawards_id
FOREIGN KEY (content_id)
REFERENCES Content(content_id);
```

```
INSERT INTO Customer (customer_id, membership_plan_id, imdb_pro_id, customer_first_name, customer_last_name, customer_email, customer_contact_number, customer_password)
VALUES
(1, 'B10', '123456', 'John', 'Doe', 'john.doe@email.com', '+1-555-1234', 'password123'),
(2, 'P60', '789012', 'Jane', 'Smith', 'jane.smith@email.com', '+1-555-5678', 'password456'),
(3, 'B10', '345678', 'Bob', 'Johnson', 'bob.johnson@email.com', '+1-555-9012', 'password789'),
(4, 'B10', '901234', 'Sarah', 'Lee', 'sarah.lee@email.com', '+1-555-3456', 'passwordabc'),
(5, 'P60', '567890', 'Mike', 'Chen', 'mike.chen@email.com', '+1-555-7890', 'passworddef'),
(6, 'B10', '789012', 'Alice', 'Smith', 'alice.smith@email.com', '+1-555-1234', 'password123'),
(7, 'P60', '345678', 'Bob', 'Johnson', 'bob.johnson@email.com', '+1-555-5678', 'password456'),
(8, 'B10', '123456', 'Charlie', 'Brown', 'charlie.brown@email.com', '+1-555-9012', 'password789'),
(9, 'B10', '901234', 'David', 'Lee', 'david.lee@email.com', '+1-555-2345', 'password234'),
(10, 'P60', '567890', 'Emily', 'Nguyen', 'emily.nguyen@email.com', '+1-555-6789', 'password567'),
(11, 'B10', '234567', 'Frank', 'Garcia', 'frank.garcia@email.com', '+1-555-1234', 'password890'),
(12, 'P60', '890123', 'Grace', 'Davis', 'grace.davis@email.com', '+1-555-5678', 'password123'),
(13, 'B10', '456789', 'Henry', 'Smith', 'henry.smith@email.com', '+1-555-9012', 'password456'),
(14, 'B10', '901234', 'Isabella', 'Jones', 'isabella.jones@email.com', '+1-555-2345', 'password234'),
(15, 'P60', '567890', 'Jacob', 'Wilson', 'jacob.wilson@email.com', '+1-555-6789', 'password567'),
(16, 'B10', '234567', 'Kayla', 'Gonzalez', 'kayla.gonzalez@email.com', '+1-555-1234', 'password890'),
```

```
(17, 'P60', '890123', 'Liam', 'Davis', 'liam.davis@email.com', '+1-555-5678', 'password123'),
(18, 'B10', '456789', 'Mia', 'Johnson', 'mia.johnson@email.com', '+1-555-9012', 'password456'),
(19, 'P60', '123456', 'Oliver', 'Martinez', 'oliver.martinez@email.com', '+1-555-7890', 'password789'),
(20, 'G100', '789012', 'Sophiab', 'Brown', 'sophia.brown7@email.com', '+1-555-3457', 'password01290'),
(21, 'P20', '789012', 'Sophia', 'Brownie', 'sophia.brown8@email.com', '+1-555-3458', 'password01KP'),
(22, 'G100', '789012', 'Sophiabc', 'Browncloud', 'sophia.brown9@email.com', '+1-555-3459', 'password01876');
select * from Customer;

INSERT INTO Membership_plan (membership_plan_id, transaction_id, plan_type_id, plan_description, plan_duration, plan_price,content_id)
VALUES
   ('B10', 'TXN001', 1, 'Basic Plan', '1 month', '$9.99','M4590'),
   ('P60', 'TXN002', 2, 'Premium Plan', '6 months', '$59.99','TV394'),
   ('G100', 'TXN003', 3, 'Gold Plan', '12 months', '$99.99','EVENTS67'),
   ('P20', 'TXN004', 4, 'Platinum Plan', '1 month', '$19.99','TV394'),
   ('S30', 'TXN005', 5, 'Silver Plan', '3 months', '$29.99','EVENTS67');


  INSERT INTO IMDB_Pro (imdb_pro_id, Celebrity_content_id, content_genre, content_description, content_views, content_likes)
VALUES
   ('123456', 1, 'Comedy', 'A hilarious comedy', '100000', '50000'),
   ('234567', 2, 'Drama', 'An intense drama', '50000', '25000'),
   ('345678', 3, 'Action', 'An explosive action movie', '75000', '35000'),
   ('456789', 4, 'Romance', 'A heartwarming romance', '90000', '45000'),
   ('567890', 5, 'Horror', 'A spine-chilling horror', '60000', '30000'),
   ('678901', 6, 'Sci-Fi', 'An epic science fiction adventure', '80000', '40000'),
   ('789012', 7, 'Thriller', 'A nail-biting thriller', '70000', '35000'),
   ('890123', 8, 'Mystery', 'A gripping mystery', '65000', '32500'),
   ('901234', 9, 'Documentary', 'A fascinating documentary', '55000', '27500'),
   ('012345', 10, 'Animation', 'A charming animated film', '85000', '42500');
```

INSERT INTO Celebrity_info (celebrity_id, celebrity_name, celebrity_birthdate, celebrity_updates, celebrity_ranking, celebrity_awards)
VALUES
(1, 'Tom Hanks', '1956-07-09', 'Wins Golden Globe for Best Actor', 10, 'Academy Award for Best Actor'),
(2, 'Beyonce', '1981-09-04', 'Announces new album release', 8, 'Grammy Award for Album of the Year'),
(3, 'Leonardo DiCaprio', '1974-11-11', 'Begins filming new Martin Scorsese movie', 9, 'Academy Award for Best Actor'),
(4, 'Angelina Jolie', '1975-06-04', 'Directs new movie for Netflix', 7, 'Academy Award'),
(5, 'Dwayne Johnson', '1972-05-02', 'Becomes highest-paid actor in Hollywood', 6, 'NAACP Image Award'),
(6, 'Emma Watson', '1990-04-15', 'Named UN Women Goodwill Ambassador', 2, 'British Academy Film Award'),
(7, 'Chris Hemsworth', '1983-08-11', 'Starts filming new Thor movie', 3, 'Teen Choice Award'),
(8, 'Jennifer Lawrence', '1990-08-15', 'Wins Golden Globe for Best Supporting Actress', 11, 'Academy Award for Best Actress'),
(9, 'Robert Downey Jr.', '1965-04-04', 'retired from the Marvel Cinematic Universe', 12, 'Golden Globe Award'),
(10, 'Scarlett Johansson', '1984-11-22', 'Set to star in upcoming Disney+ series', 13, 'BAFTA Award'),
(11, 'Tom Cruise', '1962-07-03', 'Completes filming for Mission: Impossible 7', 1, 'Golden Globe Award'),
(12, 'Margot Robbie', '1990-07-02', 'To star in pirates of carrebian', 4, 'Critics Choice Movie Award'),
(13, 'Ryan Reynolds', '1976-10-23', 'Signs deal with Netflix to produce new movie', 5, 'Peoples Choice Award');

INSERT INTO Celebrity_Content (celebrity_id, Celebrity_content_id, celebrity_movies, celebrity_tv_shows)
VALUES
(1, 1, 'Forrest Gump', 'Band of Brothers'),
(2, 2, 'Dreamgirls', 'Black Is King'),
(3, 3, 'The Wolf of Wall Street', 'Growing Pains'),

```
(4, 4, 'Maleficent', 'Mr. & Mrs. Smith'),
(5, 5, 'Jumanji: Welcome to the Jungle', 'Ballers'),
(6, 6, 'Harry Potter and the Sorcerers Stone', 'The Circle'),
(7, 7, 'Thor:Ragnarok', 'Home and Away'),
(8, 8, 'Silver Linings Playbook', 'The Bill Engvall Show'),
(9, 9, 'Iron Man', 'Ally McBeal'),
(10,10, 'Marriage Story', 'Euphoria'),
(11,11, 'Top Gun', 'Mission: Impossible - The Series'),
(12,12, 'The Wolf of Wall Street', 'Pan Am'),
(13,13, 'Deadpool', 'Two Guys and a Girl');

INSERT INTO Membership_plan_Type (plan_type_id, plan_type)
VALUES
   (1, 'Basic plan with limitations'),
   (2, 'Customized plan 6 months with benefits'),
   (3, 'Customized plan 12 months with benefits'),
   (4, 'Basic plan with no limitations'),
   (5, '3 months basic plan');

  INSERT INTO transaction_table (transaction_id, ticket_id, transaction_date, transaction_amount, transaction_type, transaction_status)
VALUES
   ('TXN001', 101, '2022-01-01', '100.00', 'Credit', 'Completed'),
   ('TXN002', 102, '2022-01-02', '200.00', 'Debit', 'Completed'),
   ('TXN003', 103, '2022-01-03', '50.00', 'Credit', 'Pending'),
   ('TXN004', 104, '2022-01-04', '300.00', 'Debit', 'Completed'),
   ('TXN005', 105, '2022-01-05', '150.00', 'Credit', 'Completed'),
   ('TXN006', 106, '2022-01-06', '75.00', 'Credit', 'Pending'),
   ('TXN007', 107, '2022-01-07', '250.00', 'Debit', 'Completed'),
   ('TXN008', 108, '2022-01-08', '125.00', 'Credit', 'Completed'),
   ('TXN009', 109, '2022-01-09', '400.00', 'Debit', 'Pending'),
   ('TXN010', 110, '2022-01-10', '50.00', 'Credit', 'Completed'),
   ('TXN011', 111, '2022-01-11', '100.00', 'Credit', 'Completed'),
   ('TXN012', 112, '2022-01-12', '150.00', 'Debit', 'Pending'),
   ('TXN013', 113, '2022-01-13', '75.00', 'Credit', 'Completed'),
   ('TXN014', 114, '2022-01-14', '200.00', 'Debit', 'Completed'),
   ('TXN015', 115, '2022-01-15', '50.00', 'Credit', 'Pending');
```

```
INSERT INTO Casting_director (director_id, director_first_name, director_last_name, director_age, director_gender, director_background)
VALUES
  (1, 'John', 'Doe', 40, 'M', 'Film'),
  (2, 'Jane', 'Smith', 35, 'F', 'Theatre'),
  (3, 'Robert', 'Johnson', 45, 'M', 'Television'),
  (4, 'Sarah', 'Garcia', 32, 'F', 'Film'),
  (5, 'David', 'Lee', 50, 'M', 'Theatre'),
  (6, 'Emily', 'Nguyen', 28, 'F', 'Television'),
  (7, 'Michael', 'Brown', 55, 'M', 'Film'),
  (8, 'Alexandra', 'Kim', 42, 'F', 'Theatre'),
  (9, 'Thomas', 'Wong', 47, 'M', 'Film'),
  (10, 'Jessica', 'Liu', 31, 'F', 'Television'),
  (11, 'William', 'Chen', 36, 'M', 'Film'),
  (12, 'Maria', 'Gonzalez', 53, 'F', 'Theatre'),
  (13, 'Christopher', 'Park', 29, 'M', 'Television'),
  (14, 'Melissa', 'Ng', 39, 'F', 'Film'),
  (15, 'William', 'Johnson', 50, 'M', 'Film'),
  (16, 'Sophie', 'Martin', 37, 'F', 'Theatre'),
  (17, 'Daniel', 'Nguyen', 43, 'M', 'Television'),
  (18, 'Olivia', 'Chen', 29, 'F', 'Film'),
  (19, 'Jonathan', 'Garcia', 55, 'M', 'Theatre'),
  (20, 'Lena', 'Wang', 34, 'F', 'Television');

INSERT INTO Project (project_id, project_name, project_type, project_description, project_director)
VALUES
  ('P001', 'The Great Gatsby', 'Film', 'A romantic drama set in the roaring 20s', 'John Doe'),
  ('P002', 'Hamlet', 'Theatre', 'A tragic play about a prince seeking revenge', 'Jane Smith'),
  ('P003', 'Breaking Bad', 'Television', 'A crime drama about a high school chemistry teacher turned drug lord', 'Robert Johnson'),
  ('P004', 'La La Land', 'Film', 'A romantic musical set in modern-day Los Angeles', 'Sarah Garcia'),
```

('P005', 'Les Miserables', 'Theatre', 'A musical about love, redemption, and revolution in 19th century France', 'David Lee'),
('P006', 'Stranger Things', 'Television', 'A sci-fi horror series set in the 1980s', 'Emily Nguyen'),
('P007', 'The Irishman', 'Film', 'A crime epic spanning several decades', 'Michael Brown'),
('P008', 'The Lion King', 'Theatre', 'A musical based on the Disney animated film', 'Alexandra Kim'),
('P009', 'The Crown', 'Television', 'A historical drama about the reign of Queen Elizabeth II', 'Thomas Wong'),
('P010', 'The Phantom of the Opera', 'Theatre', 'A musical about a mysterious figure haunting the Paris Opera House', 'Jessica Liu'),
('P011', 'Inception', 'Film', 'A sci-fi action film about a thief who enters people's dreams', 'William Chen'),
('P012', 'Wicked', 'Theatre', 'A musical based on the novel Wicked: The Life and Times of the Wicked Witch of the West', 'Maria Gonzalez'),
('P013', 'Breaking Bad: El Camino', 'Film', 'A continuation of the Breaking Bad story following the events of the series finale', 'Christopher Park'),
('P014', 'The Sopranos', 'Television', 'A crime drama about a New Jersey mobster and his family', 'Melissa Ng'),
('P015', 'The Social Network', 'Film', 'A biographical drama about the founding of Facebook', 'William Johnson'),
('P016', 'A Streetcar Named Desire', 'Theatre', 'A play about a fading Southern belle and her brutish brother-in-law', 'Sophie Martin'),
('P017', 'The Queen\s Gambit', 'Television', 'A period drama about a young female chess prodigy in the 1950s', 'Daniel Nguyen'),
('P018', 'The Sound of Music', 'Theatre', 'A musical based on the true story of the Von Trapp family during World War II', 'Olivia Chen'),
('P019', 'The Godfather', 'Film', 'A crime drama about the Corleone family and their mafia empire', 'Jonathan Garcia'),
('P020', 'The Importance of Being Earnest', 'Theatre', 'A play about mistaken identities and romance in Victorian England', 'Lena Wang');

INSERT INTO Show_review (review_id, review_rating, review_date, cast_review, director_review)
VALUES

```
    (1, 8, '2022-01-05', 7, 9),
    (2, 6, '2022-02-12', 5, 7),
    (3, 9, '2022-03-20', 8, 9),
    (4, 7, '2022-04-02', 6, 8),
    (5, 10, '2022-05-18', 9, 10),
    (6, 5, '2022-06-25', 4, 6),
    (7, 8, '2022-07-09', 8, 7),
    (8, 7, '2022-08-14', 7, 8),
    (9, 9, '2022-09-22', 9, 9),
    (10, 6, '2022-10-30', 6, 7),
    (11, 8, '2022-11-15', 7, 9),
    (12, 5, '2022-12-22', 4, 7),
    (13, 9, '2023-01-30', 8, 9),
    (14, 7, '2023-02-13', 6, 8),
    (15, 10, '2023-03-24', 9, 10),
    (16, 5, '2023-04-30', 4, 6),
    (17, 8, '2023-05-15', 8, 7),
    (18, 7, '2023-06-20', 7, 8),
    (19, 9, '2023-07-28', 9, 9),
    (20, 6, '2023-08-30', 6, 7);

INSERT INTO Show_time (show_time_id, review_id, showtime_date,
showtime_time, showtime_duration, showtime_venue)
VALUES
    (1, 1, '2022-01-10', '19:00', '2 hours', 'Theater A'),
    (2, 2, '2022-02-18', '20:30', '1.5 hours', 'Theater B'),
    (3, 3, '2022-03-25', '18:00', '2.5 hours', 'Theater C'),
    (4, 4, '2022-04-08', '21:00', '2 hours', 'Theater A'),
    (5, 5, '2022-05-20', '19:30', '3 hours', 'Theater B'),
    (6, 6, '2022-06-27', '18:30', '1.5 hours', 'Theater C'),
    (7, 7, '2022-07-11', '20:00', '2 hours', 'Theater A'),
    (8, 8, '2022-08-16', '19:30', '2.5 hours', 'Theater B'),
    (9, 9, '2022-09-24', '18:00', '2 hours', 'Theater C'),
    (10, 10, '2022-10-31', '21:00', '1.5 hours', 'Theater A'),
    (11, 11, '2023-01-15', '19:30', '2 hours', 'Theater B'),
    (12, 12, '2023-02-22', '20:00', '1.5 hours', 'Theater C'),
    (13, 13, '2023-03-29', '18:30', '2.5 hours', 'Theater A'),
```

```
    (14, 14, '2023-04-12', '21:00', '2 hours', 'Theater B'),
    (15, 15, '2023-05-24', '19:00', '3 hours', 'Theater C'),
    (16, 16, '2023-06-30', '20:00', '1.5 hours', 'Theater A'),
    (17, 17, '2023-07-14', '18:30', '2 hours', 'Theater B'),
    (18, 18, '2023-08-19', '20:30', '2.5 hours', 'Theater C'),
    (19, 19, '2023-09-27', '19:00', '2 hours', 'Theater A'),
    (20, 20, '2023-11-01', '21:30', '1.5 hours', 'Theater B');

   INSERT INTO Ticket_Type (ticket_type_id, ticket_type)
VALUES
    ('TT001', 'General Admission'),
    ('TT002', 'VIP'),
    ('TT003', 'Student'),
    ('TT004', 'Senior'),
    ('TT005', 'Group');

INSERT INTO Ticket (ticket_type_id, ticket_id, show_time_id, ticket_price,
ticket_date, ticket_seat)
VALUES
    ('TT001', 101, 1, '30.00', '2023-01-01', 'A1'),
    ('TT002', 102, 1, '75.00', '2023-01-01', 'VIP1'),
    ('TT001', 103, 2, '25.00', '2023-02-01', 'B3'),
    ('TT003', 104, 2, '20.00', '2023-02-01', 'S2'),
    ('TT001', 105, 3, '35.00', '2023-03-01', 'C7'),
    ('TT004', 106, 3, '15.00', '2023-03-01', 'R4'),
    ('TT001', 107, 4, '40.00', '2023-04-01', 'D5'),
    ('TT005', 108, 4, '20.00', '2023-04-01', 'G2'),
    ('TT001', 109, 5, '45.00', '2023-05-01', 'E8'),
    ('TT002', 110, 5, '80.00', '2023-05-01', 'VIP2'),
    ('TT002', 111, 6, '70.00', '2023-06-01', 'VIP3'),
    ('TT001', 112, 6, '30.00', '2023-06-01', 'F6'),
    ('TT004', 113, 7, '18.00', '2023-07-01', 'T8'),
    ('TT003', 114, 7, '22.00', '2023-07-01', 'S6'),
    ('TT001', 115, 8, '40.00', '2023-08-01', 'A3'),
    ('TT005', 116, 8, '16.00', '2023-08-01', 'G4'),
    ('TT001', 117, 9, '35.00', '2023-09-01', 'B8'),
    ('TT002', 118, 9, '80.00', '2023-09-01', 'VIP4'),
```

```
    ('TT001', 119, 10, '30.00', '2023-10-01', 'C5'),
    ('TT004', 120, 10, '14.00', '2023-10-01', 'R6');

   INSERT INTO Talent_Casting (director_id, project_id, talent_name, talent_role)
VALUES
    (1, 'P001', 'Emma Stone', 'Lead Actress'),
    (1, 'P001', 'Ryan Gosling', 'Lead Actor'),
    (2, 'P002', 'Tom Hardy', 'Villain'),
    (2, 'P002', 'Margot Robbie', 'Supporting Actress'),
    (3, 'P003', 'Chris Evans', 'Superhero'),
    (4, 'P004', 'Scarlett Johansson', 'Lead Actress'),
    (4, 'P004', 'Chris Hemsworth', 'Lead Actor'),
    (5, 'P005', 'Angelina Jolie', 'Villain'),
    (5, 'P005', 'Brad Pitt', 'Supporting Actor'),
    (6, 'P006', 'Tom Hanks', 'Protagonist'),
    (7, 'P007', 'Tom Cruise', 'Lead Actor'),
    (7, 'P007', 'Margot Robbie', 'Lead Actress'),
    (8, 'P008', 'Meryl Streep', 'Protagonist'),
    (8, 'P009', 'Robert De Niro', 'Antagonist'),
    (9, 'P010', 'Daniel Craig', 'Spy');

   INSERT INTO Talent_hire (director_id, imdb_pro_id, rating, review_comments)
VALUES
    (1, '123456', '8.5', 'Great acting skills'),
    (1, '123456', '9.0', 'A true professional'),
    (2, '234567', '7.5', 'Did a good job'),
    (2, '234567', '8.0', 'Talented and dedicated to their craft'),
    (3, '345678', '9.5', 'An absolute pleasure to work with you'),
    (4, '456789', '8.0', 'Solid performance, brought a lot to the role'),
    (4, '456789', '9.5', 'Amazing talent, added depth and complexity'),
    (5, '567890', '7.0', 'Good performance, but lacked chemistry with co-stars'),
    (5, '567890', '8.5', 'Very talented'),
    (6, '678901', '8.0', 'Professional and dedicated'),
    (7, '789012', '9.0', 'Extremely talented, delivered a standout performance'),
    (7, '789012', '7.5', 'Good performance, but could have been more polished'),
    (8, '890123', '8.5', 'Very professional'),
    (8, '890123', '9.5', 'One of the best actors I have worked with'),
```

```
   (9, '901234', '7.0', 'Did a decent job');

  INSERT INTO Content_rating (rating_id, overall_rating, rating_by_genre, rating_by_certificates, rating_by_cast_and_crew)
  VALUES
('tt0012345', 8, 7, 9, 8),
('tt0054321', 9, 9, 8, 8),
('tt0098765', 7, 6, 8, 7),
('tt0123456', 10, 10, 10, 9),
('tt0212345', 6, 6, 7, 7),
('tt0312345', 8, 8, 8, 7),
('tt0412345', 7, 6, 7, 8),
('tt0512345', 9, 9, 9, 10),
('tt0612345', 8, 7, 9, 8),
('tt0712345', 7, 6, 8, 7),
('CR11', 9, 8, 7, 6),
('CR12', 6, 7, 8, 9),
('CR13', 5, 6, 7, 8),
('CR14', 8, 7, 6, 5),
('CR15', 6, 5, 4, 3);

INSERT INTO Content (content_id, rating_id, content_type)
VALUES
('M4590','tt0012345','Movie'),
('TV394','tt0054321','Tv'),
('EVENTS67','tt0098765','Awards');

INSERT INTO Movie (content_id, movie_name, duration, description, rating)
VALUES ('M4590', 'The Shawshank Redemption', '2h 22min', 'Two imprisoned men bond over a number of years, finding solace and eventual redemption through acts of common decency.', 9),
('M4590', 'The Godfather', '2h 55min', 'An organized crime dynastys aging patriarch transfers control of his clandestine empire to his reluctant son.', 9),
('M4590', 'The Dark Knight', '2h 32min', 'When the menace known as the Joker wreaks havoc and chaos on the people of Gotham, Batman must accept one of the greatest psychological and physical tests of his ability to fight injustice.', 8),
```

('M4590', 'The Godfather: Part II', '3h 22min', 'The early life and career of Vito Corleone in 1920s New York City is portrayed, while his son, Michael, expands and tightens his grip on the family crime syndicate.', 9),
('M4590', '12 Angry Men', '1h 36min', 'A jury holdout attempts to prevent a miscarriage of justice by forcing his colleagues to reconsider the evidence.', 8),
('M4590', 'The Dark Knight-2', '2h 32min', 'When the menace known as the Joker wreaks havoc and chaos on the people of Gotham, Batman must accept one of the greatest psychological and physical tests of his ability to fight injustice.', 9),
('M4590', 'The Godfather-3', '2h 55min', 'The aging patriarch of an organized crime dynasty transfers control of his clandestine empire to his reluctant son.', 9),
('M4590', 'The Lord of the Rings: The Fellowship of the Ring', '2h 58min', 'A meek Hobbit from the Shire and eight companions set out on a journey to destroy the powerful One Ring and save Middle-earth from the Dark Lord Sauron.', 8),
('M4590', 'Forrest Gump', '2h 22min', 'The presidencies of Kennedy and Johnson, the Vietnam War, the Watergate scandal and other historical events unfold through the perspective of an Alabama man with an IQ of 75, whose only desire is to be reunited with his childhood sweetheart.', 8),
('M4590', 'Inception', '2h 28min', 'A thief who steals corporate secrets through the use of dream-sharing technology is given the inverse task of planting an idea into the mind of a C.E.O.', 8);

INSERT INTO TV_Show (content_id, show_name, duration, description, rating)
VALUES
('TV394', 'Stranger Things', '60 min', 'When a young boy disappears, his mother, a police chief, and his friends must confront terrifying supernatural forces in order to get him back.', 8),
('TV394', 'Game of Thrones', '60 min', 'Nine noble families fight for control over the lands of Westeros, while an ancient enemy returns after being dormant for millennia.', 9),
('TV394', 'Breaking Bad', '49 min', 'A high school chemistry teacher diagnosed with inoperable lung cancer turns to manufacturing and selling methamphetamine in order to secure his family future.', 9),
('TV394', 'The Crown', '58 min', 'Follows the political rivalries and romance of Queen Elizabeth IIs reign and the events that shaped the second half of the twentieth century.', 8),

('TV394', 'The Witcher', '60 min', 'Geralt of Rivia, a solitary monster hunter, struggles to find his place in a world where people often prove more wicked than beasts.', 8),
('TV394', 'Friends', '30 min', 'A sitcom about a group of friends living in New York City', 8),
('TV394', 'The Office', '30 min', 'A mockumentary-style sitcom about office life', 8),
('TV394', 'The Family Man', '30 min', 'A fascinating thriller with patriotism', 9),
('TV394', 'mirzapur', '94 min', 'A drama filmed in the north part of india', 8),
('TV394', 'The Test', '51 min', 'A documentary on border-gavaskar trophy', 9);

INSERT INTO Awards (content_id, event_name, duration, description, rating)
VALUES
('EVENTS67', 'Academy Awards', '3 hours', 'Annual awards ceremony recognizing excellence in cinematic achievements', 4),
('EVENTS67', 'Emmy Awards', '4 hours', 'Annual awards ceremony recognizing excellence in television programming', 5),
('EVENTS67', 'Grammy Awards', '3.5 hours', 'Annual awards ceremony recognizing excellence in the music industry', 4),
('EVENTS67', 'Tony Awards', '3 hours', 'Annual awards ceremony recognizing excellence in live Broadway theater', 3),
('EVENTS67', 'Golden Globe Awards', '3 hours', 'Annual awards ceremony recognizing excellence in film and television', 4),
('EVENTS67', 'Screen Actors Guild Awards', '2 hours', 'Annual awards ceremony recognizing outstanding performances in film and television', 4),
('EVENTS67', 'MTV Video Music Awards', '3 hours', 'Annual awards ceremony recognizing achievements in the music video industry', 3),
('EVENTS67', 'People\s Choice Awards', '2 hours', 'Annual awards ceremony where winners are determined by public vote', 3),
('EVENTS67', 'Cannes Film Festival', '10 days', 'Annual film festival featuring screenings and competition of international films', 5),
('EVENTS67', 'Oscars', '3.5 hours', 'Annual awards ceremony recognizing excellence in the film industry', 5);

Appendix-3

QUERIES USED IN FEATURES

Feature-1-select content_id,movie_name,rating with highest rating

```
(select m.content_id, m.movie_name, cr.overall_rating
from movie m
join content c on m.content_id = c.content_id
join content_rating cr on c.rating_id = cr.rating_id
order by cr.overall_rating desc
limit 1)
union
(select tv.content_id, tv.show_name, cr.overall_rating
from tv_show tv
join content c on tv.content_id = c.content_id
join content_rating cr on c.rating_id = cr.rating_id
order by cr.overall_rating desc
limit 1)
union
(select a.content_id, a.event_name, cr.overall_rating
from awards a
join content c on a.content_id = c.content_id
join content_rating cr on c.rating_id = cr.rating_id
order by cr.overall_rating desc
limit 1);
```

Feature-2- Which Celebrity is having better ranking in IMDB

```
select celebrity_name, celebrity_ranking
from celebrity_info ci
order by celebrity_ranking asc
```

Feature-3-Which type of membership is being used most by the customers

```
select mp.membership_plan_id,mp.plan_description, count(c.customer_id) as cust_count
from customer c
join membership_plan mp
on c.membership_plan_id = mp.membership_plan_id
join membership_plan_type mpt
on mp.plan_type_id  = mpt.plan_type_id
group by mp.membership_plan_id
order by cust_count desc
limit 2
;
```

Feature-4-List the ticket_id,ticket_type,ticket_seat and price for all tickets with a price less than or equal to the average ticket price.

```
SELECT t.ticket_id, t.ticket_type_id AS ticket_type,t.ticket_seat , t.ticket_price
FROM Ticket t
JOIN (
   SELECT AVG(ticket_price::numeric) AS avg_price
   FROM Ticket
) avg_t
ON t.ticket_price::numeric <= avg_t.avg_price
JOIN transaction_table tr
ON t.ticket_id = tr.ticket_id;
```