# "Movie Ticket Booking System"

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Master of Science

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# **Acknowledgement**

We Would Like To Take This Opportunity To Express Our Gratitude To **Prof. Minal Bhise** Our Course Instructor, **Parth Modi** Our Teaching Assistant For Their Support And Guidance In Completing Our Project On The Topic Movie Ticket Booking System.

And Also We Would Like To Thank Lab Assistant And The Lab Management Team Of DA-IICT For Providing Computer Laboratory Infrastructure.

## **SRS (System Requirements Specifications)**

#### **Description of case study -**

What is a movie ticket booking management system?

It is a system which is created to solve the problem of almost every movie enthusiast, the problem of standing in queues to watch their favorite movie. This system eliminates queues and allows the audience to book a movie ticket virtually without compromising their comfort.

This type of system is created to book online tickets and complete management revolving around movie tickets bookings.

The users in general are required to create an ID before booking tickets and need to have a few things like a digital device (mobile, tablet, laptop etc), a stable internet connection, online payment tool like upi, credit card, debit card, net banking, digital wallets etc.

Within the website users need to input movie name and location and using this information the system provides all the details regarding the request, after this user can proceed towards booking the tickets if users wish to do so.

#### <u>Problem statement</u> -

The whole process before this kind of system was developed used to be offline and lacked convenience, the main objective of this kind of system is to increase convenience for all the stakeholders involved be it movie theaters or customers and this offline to online shift was made to provide users with a good experience.

#### System perspective -

Online movie ticket booking management system is a replacement for manual, traditional and old existing systems where a lot of work is human intensive and needs a lot of physical effort.

#### <u>Different stakeholders of this system are</u> -

#### • Movie theaters -

System collaborates with them and the reach of these cinema halls increases and the workload at these halls are also reduced as digital tickets are easy to manage.

#### • Customers -

They enjoy the benefit of saving time and money as they don't need to stand in queues. They can choose seats beforehand, attractives offers are also present while booking online.

#### • Management -

They are managing all the processes in the backend. Any error or any miscommunications are handled by them, they form the backbone of the system and integrate everything.

#### • Admin -

The Admin department is the main developer of the system working for overall working of the system.

#### Basic features of this kind of system are -

#### • Register-

To use the system, the user needs to sign up with some basic details like mobile number, email address, city, state etc.

#### Login-

After registration, the user can login with the set password and access the services.

#### • To check availability of tickets -

Users can check according to the movie and theater how many total seats are available at any particular moment.

#### • To check prices of movie tickets-

Prices are indicated according to the seats selected for a particular theater.

#### • To compare different movie theaters on a single screen -

Users can check out every theater on the website.

#### • To check upcoming movies-

Users can check the list of movies that will be screening in the near future along with its date of release and some other details like genre, language, duration of movie to decide if he/she wants to book this show.

#### • To book ticket -

The user can book tickets according to his/her needs and get a ticket id which displays basic information about the movie like screen number, seat number etc and can be used for future processes.

#### • To cancel tickets -

Users can cancel the tickets online but refund is according to terms and conditions of the cinema.

#### • Online payment -

Users can pay online with resources like debit card, credit card, upi, net banking, digital wallets etc.

#### • Online meals booking in advance -

Users can add additional meals or particular food items along with the quantity if required during the movie.

#### • Reschedule tickets -

Some cinemas will allow users to reschedule the tickets.

#### Pros of online movie ticketing -

- Can be easily done with phone and internet access
- No need to stand in long queues to book tickets.
- The seats can be chosen in advance according to one's need which is in favor of the audience.
- Attractive offers are available while booking online.
- Tickets can be canceled online.

## Cons of online ticketing -

- Requires a stable internet connection
- Online booking extra charges are needed to be paid by users.

## Goals of the system -

- To provide a remote service to users that means users can book tickets from anywhere and at any time.
- To maintain proper records and statistics of the bookings.
- To increase profit.
- To promote movies over the internet.

### **Requirement Collection**

Input and outputs -

- Background reading -
- 1. Inputs -
- Understanding topic
- Understanding problem statement
- Existing system analysis

#### 2. Outputs -

About movie ticket booking management system

It is a system which is created to solve the problem of almost every movie enthusiast, the problem of standing in queues to watch their favorite movie. This system eliminates queues and allows the audience to book a movie ticket virtually without compromising their comfort.

#### Basic features of this kind of system are -

- To check availability of tickets
- To check prices of movie tickets
- To compare different movie theaters on a single screen
- To book ticket
- To cancel ticket
- Online payment
- Online meals booking in advance
- Reschedule tickets

#### Merits of using such system -

- Can be easily done with phone and internet access
- No need to stand in long queues to book tickets.
- The seats can be chosen in advance according to one's need which is in favor of the audience.
- Attractive offers are available while booking online.
- Tickets can be canceled online.

#### **Demerits of online ticketing -**

• Requires a stable internet connection

#### Existing system study (BookMyShow) -

### About BookMyShow-

It is an online movie ticketing portal available in form of website and application, and can be used to avail services like movie ticket booking, tickets for different happenings like - sports match tickets, live shows tickets, and online virtual show tickets.

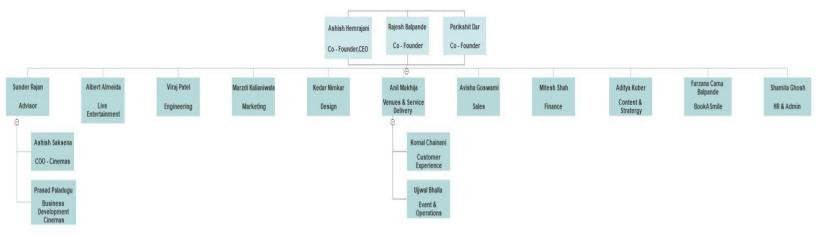
#### Financial report of bookmyshow-

Revenue of the company is consistently growing.



#### Organizational structure-

Founded by - Ashish Hemrajani , Rajesh Balpande , Parikshit Dar CEO- Ashish Hemrajani



- Interview -
- 1. Inputs -
- Request for interview through email
- Preparing questions for interview
- Interview plan -

DBMS: Interview Plan

Project Name: movie ticket booking management system

Participants:

Interviewee - Employee BookMyshow(SDE)

Interviewer - Darsh doshi(202212061) - Student DA-IICT Viplove jain(202212014) - Student DA-IICT

Date: 02 / 09 / 2022 Time: 7:30 PM

Duration: 15 minutes Place: virtual(zoom meeting)

#### <u>Purpose of Interview</u>:

- Understanding basic structure of application
- Day to day problems while working on this type of product.

Documents to be brought to the interview: -None-

- Questions prepared for interview -
- 1. What does it feel like to work on this kind of a product?
- 2. What are the challenges you face?
- 3. Which different types of user categories does **BookMyShow** Have?
- 4. Can you explain briefly what are the business constraints?
- 5. Any future challenges you see for your company?
  - Conducting interview

#### 2. Outputs -

### • Interview summary-

Interview started with a brief introduction of all members involved. After the introduction we discussed the questions that we prepared before the interview session. Our interviewee opened about working at a bookmyshow and talked about the basic operations at the company. Talking about the challenges sir said that it's a dynamically evolving industry and requires frequent updations from time to time.

Users of bookmyshow are distributed in two categories, one is the customers who are using their system for online movie ticketing etc , and one are the theaters which get registered on the system to sell their tickets.

Major Future challenge is growth of OTT platforms as a chunk of audience is also diverting towards out platforms.

- Collected information relevant to real life project
- Data helpful for observation phase

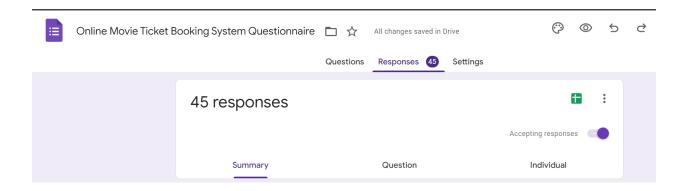
## • Questionnaire-

## 1. Inputs -

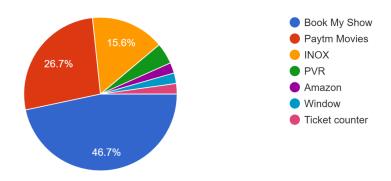
- Preparation of questions
- Creation of google forms
- Circulation of google forms

## 2. Outputs -

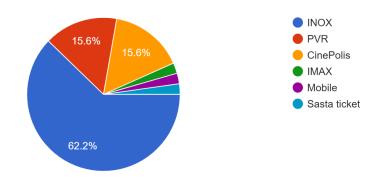
- Collected data from customers perspective
- Data helpful for observation phase



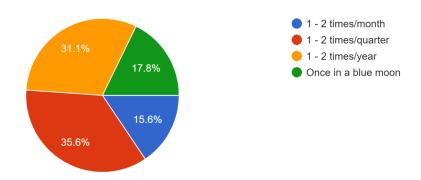
Q1- Which platform do you prefer to book movie tickets? 45 responses



Q2- Which movie theatre do you prefer? 45 responses

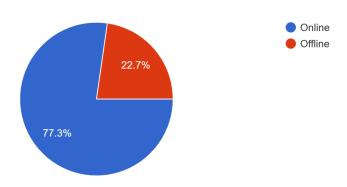


Q3- How often do you go for a movie? 45 responses

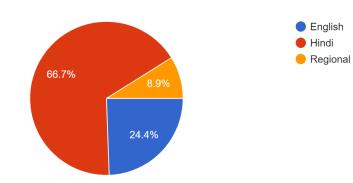


Q4- How do you book tickets?

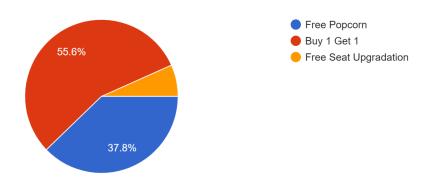
44 responses



Q5- Which language movie do you generally prefer? 45 responses



Q6- Which free service would you prefer if new movie ticket booking system is launched? 45 responses



#### • Observation -

#### 1. Input-

- Background reading
- Existing system study
- Interview
- Questionnaire

#### 2. Output -

#### From existing system -

- Bookmyshow is currently the market leader for booking online movie tickets in india.
- Company's revenue is growing consistently but still it's not profitable and depends on fundings from investors.
- Company has multiple sources of income apart from movie ticketing like sports match tickets and stand up comedy show tickets etc.

#### From interview -

- These kind of system requires a lot of updation as they are dynamically growing industry
- Ott platforms are a barrier in capturing more customers

#### From questionnaire -

- Maximum number of people prefer bookmyshow (about 47%) to book online movie tickets followed by paytm movies, inox app etc.
- Maximum number of people prefer inox movie theater (about 62%) followed by PVR and cinepolis etc.
- In general people go for one two movies in a quarter, or a year.
- More than 75% of people prefer online booking over offline.
- <sup>2</sup>/<sub>3</sub> people prefer a hindi movie over an english or a regional language movie.
- If a new app is launched and a free service is provided more than half (about 55%) people will prefer a free seat over a free popcorn or a seat upgrade.

## **Sect Finding Chart** -

Objective	Technique	Subject	Time
To find basic structure of system	Background reading	Existing system study	2 hours
To understand different components of system	Background reading	Existing system study/ Online study at various portals	2 hours
To understand core operations of system	Interview	Employee working at this kind of system	30 mins
To understand what records should be kept	Interview	Employee working at this kind of system	30 mins
To get users input about system	Questionnaire	Multiple users	2 hours
To follow up development of system understanding	Observation	From existing system study and questionnaire	2 hours

#### \* Requirements -

### Non-Functional Requirements:

- **Performance**: System should be able handle traffic of multiple users at any point of time and also any of the web browsers.
- Security: System should be secure enough to protect data of stakeholders involved
- Maintainability: System should be easy to maintain.
- **Browser Compatibility**: The project being web based requires compatibility with all browsers available.

#### Functional Requirements:

- New users can see the movie details but cannot book it until they are registered in the system.
- Registered users can change the password after logging into the system.
- See his/her current reservations on different movies along with the details.
- Able to choose the seats which are available for a certain class like silver, gold, platinum.
- Able to order snacks/meals.
- Give details about the credit card for the payment like account number, CVV number.
- The system should automatically show the fare for the corresponding movies and amount of money that is needed to be paid for selected seats.

To build a complete system with a following features -

- Client-Side
- Admin Panel
- Theater Panel
- Customer registration
- Upcoming movies, trailers, now showings
- Make bookings
- Payments
- Booking history
- Movie arrangements
- List upcoming movie details
- Show management
- Arrange movie screens and show timings
- Start and Stop running shows

Tools required to built this system is -

Back - End Tool : Postgresql

Why Postgre?

- Security
- Portability
- Maintainability
- Efficiency

## **User Categories** -

- Admin
- Management
- Theater partner
- Client ( customer )
- Payment gateway partner

## Features:

- Client-Side
- Admin Panel
- Theater Panel
- Customer registration
- Upcoming movies, trailers, now showings
- Make bookings
- Payments
- Booking history
- Movie arrangements
- List upcoming movie details
- Show management
- Arrange movie screens and show timings
- Start and Stop running shows

#### Privileges -

### Admin Privileges:

- Client side
- Admin panel
- Customer registration
- Upcoming movies, trailers, now showings
- Make bookings
- Payments
- Booking history
- Movie arrangements
- List upcoming movie details
- Show management
- Arrange movie screens and show timings
- Start and Stop running shows

### Management Privileges:

- Customer registration
- Upcoming movies, trailers, now showings
- Make bookings
- Payments
- Booking history
- Movie arrangements
- List upcoming movie details
- Show management
- Arrange movie screens and show timings
- Start and Stop running shows

#### **Theater Partner Privileges:**

- Upcoming movies, trailers, now showings
- Own Theater Booking history
- Movie arrangements
- List upcoming movie details
- Show management
- Arrange movie screens and show timings
- Start and Stop running shows

### **Customer Privileges:**

- Client side
- Customer registration
- Upcoming movies, trailers, now showings
- Make bookings
- Payments
- Own Booking history
- See upcoming movie details

#### **Assumptions** -

- Admin is created in the system already.
- Roles and tasks are predefined.
- There is a limit of booking a movie. If the hall is houseful then the user cannot book the movie at that time.
- In general it has been assumed that the user has complete knowledge of the system that means the user is not a naive user. Any data entered by him/her will be valid.
- users have Internet accessibility.

## **Business Constraints** -

- User interface is only available in English, Option To change language is not available.
- Ott platforms hamper the revenue of booking systems
- Stable Internet access is required.
- Data might get corrupted in case of system crash or power failure.
- Users need to carry A digital ticket with him/her.

## References -

www.prezi.com www.bookmyshow.com www.wikipedia.com

# **Design**

# \* Noun Analysis -

Initial List Of Nouns				
Movie	Details	System	Payment	
Ticket	Request	System	Users	
Management	Problem	Features	Resource	
System	Statement	System	Debit-Card	
System	System	Registration	Credit-Card	
Problem	Convenience	System	Upi	
Enthusiast	Stakeholder	User	Net-Banking	
Problem	Movie	Details	Digital-Wallets	
Favorite	Theaters	Password	Meal	
Movie	Customers	Services	Users	
System	Users	Tickets	Meal	
Queues	System	Users	Movie	
Audience	Movie	Movie	Tickets	
Movie	Ticket	Theater	Cinemas	
Ticket	Management	Seats	Users	
Comfort	System	Prices	Tickets	
Туре	Replacement	Movie	Movie	
System	Manual	Tickets	Ticket	
Tickets	System	Prices	Phone	
Management	Human	Seats	Internet	
Movie	Effort	Theater	Access	
Ticket	Stakeholders	Movie	Queues	
User	System	Theater	Tickets	
Tickets	Movie	Screen	Seats	
Users	Favor	Ticket	Goals	

Theater	Audience	Users	System
Website	Offers	Tickets	Remote
Movies	Tickets	Tickets	Service
Users	Ticket	Total Seats	Screen No
Time	Duration	Language	Genre
Mobile No	Ticket No	Transaction Id	Food Item
Department	Show	Books	Pays
Halls	Money	Errors	Developer
Digital Tickets	Queue	Backbone	Internet
Customers	Seats	System	Theaters
Users	Offers	Admin	System
Users	Management	Admin	Cinema Halls
State	Backend	Password	Screening
Quantity	Date	Credit Card	Name
Displays	User	Debit Card	Location
Users	City	Net Banking	Information
Tickets	Age	Digital Wallets	Movies
Records	Laptop	Website	Digital Device
Statistics	Internet	Users	Mobile
Email	Payment	Movie	Tablet
Terms	Tool	Cinema	Tickets
Conditions	Upi	List	Refund
Movies	Profit	Internet	Charges

Accepted Nouns Table				
Candidate Entity Set	Candidate Attribute	Candidate Relationship Set		
Movie	Туре	Books		
Ticket	Seat No	Pays		
Admin	Price	Displays		
Customer	Total Seats	Screening		
Theaters	Screen No			
Payment	Name			
Meals	Location			
Seats	Date			
Screen	City			
Show	State			
	Time			
	Duration			
	Language			
	Genre			
	Age			
	Email			
	Password			
	Mobile No			
	Ticket No			
	Transaction Id			
	Food Item			
	Quantity			

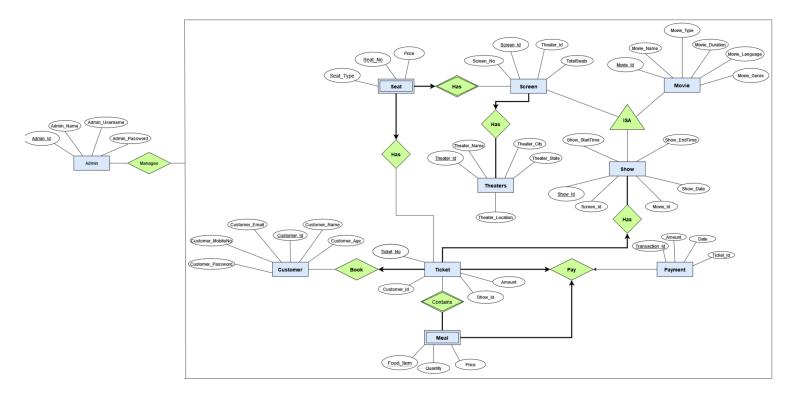
Rejected Nouns Table			
Nouns	Reasons		
System	Irrelevant		
Problem	Irrelevant		
Enthusiast	Vague		
Queue	Irrelevant		
Audience	Duplicate		
Comfort	Irrelevant		
Statement	Irrelevant		
Convenience	Irrelevant		
Stakeholder	Irrelevant		
Users	Duplicate		
Replacement	Irrelevant		
Manual	Vague		
Human	Vague		
Effort	Vague		
Features	Irrelevant		
Password	Irrelevant		
Services	Irrelevant		
Resource	Irrelevant		
Credit Card	Irrelevant		
Debit Card	Irrelevant		
Net Banking	Irrelevant		
Upi	Irrelevant		
Digital Wallets	Irrelevant		

Cinemas	Duplicate
Phone	Vague
Internet	Irrelevant
Queue	Vague
Digital Device	Irrelevant
Mobile	Irrelevant
Tablet	Irrelevant
Laptop	Irrelevant
Tool	Irrelevant
Website	Irrelevant
Information	Vague
Cinema Halls	Irrelevant
Halls	Irrelevant
Digital Tickets	Irrelevant
Money	Vague
Offers	Irrelevant
Backend	Vague
Errors	Irrelevant
Backbone	Irrelevant
Management	Irrelevant
Developer	Irrelevant
List	Vague
Refund	Irrelevant
Terms	Vague
Conditions	Vague

Favor	Vague
Charges	Irrelevant
Goals	Irrelevant
Remote	Irrelevant
Service	Irrelevant
Records	Irrelevant
Statistics	Vague
Profit	Vague
Request	Irrelevant
Registration	Irrelevant
Access	Vague
Favorite	Irrelevant
Details	Irrelevant
Department	Irrelevant

Strong Entity	Weak Entity	
Entities	Entities	Identifier
Theater	Seats	Seat No
Movie	Meal	Meal Name
Show		
Screen		
Customer		
Payment		
Ticket		
Admin		

# E - R Diagram



# E - R To Relational Mapping

**Table 1: Customer** 

Field Name	Data Type	Description	Constraints
Customer_Id	int	ID Of Customer	PRIMARY KEY
Customer_Name	varchar(100)	Name of The Customer	NOT NULL
Customer_Age	int(3)	Age of Customer	CHECK Customer_Age > 0
Customer_MobileNo	bigint	Mobile Number of Customer	NOT NULL
Customer_Email	varchar	Email Of Customer	UNIQUE KEY, NOT NULL
Customer_Password	varchar(MAX)	Password of Customer	NOT NULL

**Tabel 2: Theaters** 

Field Name	Data Type	Description	Constraints
Theater_Id	int	ID of Theater	PRIMARY KEY
Theater_Name	varchar(200)	Name of Theater	NOT NULL
Theater_Location	varchar(MAX)	Location of Theater	NOT NULL
Theater_City	varchar(100)	City of Theater	NOT NULL
Theater_State	varchar(100)	State of Theater	NOT NULL

Table 3: Admin

Field Name	Data Type	Description	Constraints
Admin_Id	int	ID for Customer	PRIMARY KEY
Admin_Name	varchar(100)	Name of Admin	NOT NULL
Admin_Username	varchar(100)	Username of Admin	NOT NULL, UNIQUE
Admin_Password	varchar(MAX)	Password of Admin	NOT NULL

Table 4:

Field Name	Data Type	Description	Constraints
Transaction_Id	bigint	Id of transaction	Primary Key
Amount	int(10)	Amount of booking	NOT NULL, CHECK Amount > 0
Date	date	Date of transaction	NOT NULL
Ticket_No	varchar(10)	ID of ticket	FOREIGN KEY

Table 5 : Screen

Field Name	Data Type	Description	Constraints
Screen_Id	int	Id of screen	PRIMARY KEY
Screen_No	int	Screen number	NOT NULL
TotalSeats	int(5)	Total number of seats	NOT NULL, CHECK TotalSeats > 0
Theater_Id	int	Id of theater	FOREIGN KEY

**Table 6 : Ticket** 

Field Name	Data Type	Description	Constraints
Ticket_No	varchar(10)	Unique Number Of Ticket	PRIMARY KEY
Customer_Id	int	Id Of Customer	FOREIGN KEY
Seat_Id	int	Id Of Seat	FOREIGN KEY
Show_Id	int	Id Of Show	FOREIGN KEY
Amount	int(10)	Amount Of Ticket	NOT NULL, CHECK Amount > 0

**Table 7 : Seat** 

Field Name	Data Type	Description	Constraints
Seat_Id	int	Unique Id of Seat	PRIMARY KEY
Seat_No	varchar(3)	Seat Number	NOT NULL
Seat_Type	varchar(50)	Type of Seat	NOT NULL
Price	bigint	Price of Seat	NOT NULL, CHECK Price > 0
Screen_Id	int	Id of Screen	FOREIGN KEY

Table 8 : Meal

Field Name	Data Type	Description	Constraints
Food_Item	varchar(MAX)	Name of Food Item	PRIMARY KEY
Quantity	int(3)	Quantity of Food Item	NOT NULL, CHECK Quantity > 0
Price	Double precision	Price of Food Item	NOT NULL, CHECK Price > 0
Ticket_No	varchar(10)	Id of Ticket	FOREIGN KEY

**Table 9 : Movie** 

Field Name	Data Type	Description	Constraints
Movie_Id	int	Unique Id of Movie	PRIMARY KEY
Movie_Name	varchar(MAX)	Name of the Movie	NOT NULL
Movie_Type	varchar(100)	Type of the Movie	NOT NULL
Movie_Duration	int	Duration of the Movie	NOT NULL, CHECK DURATION>0
Movie_Language	varchar(100)	Language of the Movie	NOT NULL, DEFAULT = 'HINDI'
Movie_Genre	varchar(100)	Genre of the Movie	NOT NULL

Table 10 : Show

Field Name	Data Type	Description	Constraints
Show_Id	int	Unique Id of Show	PRIMARY KEY
Screen_Id	int	Id of Screen	FOREIGN KEY
Movie_Id	int	Id of Movie	FOREIGN KEY
Show_Date	date	Date of the Show	NOT NULL
Show_StartTime	time	Show Start Time	NOT NULL
Show_EndTime	time	Show End Time	NOT NULL

#### **DDL Statements**

```
Schema:
CREATE SCHEMA MovieTicket DB;
SET SEARCH_PATH TO MovieTicket_DB;
Table 1: Customer
CREATE TABLE IF NOT EXISTS movieticket db. "Customer"
Customer_Id int,
Customer Name varchar(100) NOT NULL,
Customer Age int CHECK (Customer Age > 0),
Customer MobileNo bigint NOT NULL,
Customer_Email varchar NOT NULL UNIQUE,
Customer Password varchar NOT NULL,
CONSTRAINT Customer Pkey PRIMARY KEY (Customer Id)
)
WITH
 OIDS = FALSE
TABLESPACE pg_default;
ALTER TABLE IF EXISTS movieticket db."Customer"
OWNER to postgres;
```

#### Table 2: Theater

```
CREATE TABLE IF NOT EXISTS movieticket_db."Theater"
Theater_Id int,
Theater_Name varchar NOT NULL,
Theater Location varchar NOT NULL,
Theater_City varchar NOT NULL,
Theater_State varchar NOT NULL,
CONSTRAINT Theater_Pkey PRIMARY KEY (Theater_Id)
)
WITH
  OIDS = FALSE
TABLESPACE pg_default;
ALTER TABLE IF EXISTS movieticket_db."Theater"
OWNER to postgres;
```

## **Table 3: Admin**

```
CREATE TABLE IF NOT EXISTS movieticket_db."Admin"

(
Admin_Id int,
Admin_Name varchar(100) NOT NULL,
Admin_Username varchar(100) NOT NULL UNIQUE,
Admin_Password varchar NOT NULL,
CONSTRAINT Admin_Pkey PRIMARY KEY (Admin_Id)
)

WITH

(
OIDS = FALSE
)

TABLESPACE pg_default;

ALTER TABLE IF EXISTS movieticket_db."Admin"

OWNER to postgres;
```

## **Table 4: Payment**

```
CREATE TABLE IF NOT EXISTS movieticket_db."Payment"
(
Transaction_Id bigint,
Amount int NOT NULL CHECK (Amount>0),
Date date NOT NULL,
Ticket_No varchar(10),
CONSTRAINT Payment Pkey PRIMARY KEY (Transaction Id),
CONSTRAINT Ticket Fkey FOREIGN KEY (Ticket No)
REFERENCES movieticket db."Ticket" (Ticket No)
)
WITH
 OIDS = FALSE
)
TABLESPACE pg_default;
ALTER TABLE IF EXISTS movieticket db."Payment"
OWNER to postgres;
```

## Table 5: Screen

```
CREATE TABLE IF NOT EXISTS movieticket_db."Screen"
(
Screen_Id int,
Screen No int NOT NULL,
TotalSeats int NOT NULL CHECK (TotalSeats>0),
Theater_Id int,
CONSTRAINT Screen_Pkey PRIMARY KEY (Screen Id),
CONSTRAINT Theater Fkey FOREIGN KEY (Theater Id)
REFERENCES movieticket_db."Theater"(Theater_Id)
)
WITH
 OIDS = FALSE
)
TABLESPACE pg_default;
ALTER TABLE IF EXISTS movieticket db. "Screen"
OWNER to postgres;
```

```
Table 6: Ticket
```

```
CREATE TABLE IF NOT EXISTS movieticket db."Ticket"
(
Ticket No varchar(10),
Customer Id int,
Seat Id int,
Show Id int,
Amount bigint NOT NULL CHECK (Amount>0),
CONSTRAINT Ticket Pkey PRIMARY KEY (Ticket No),
CONSTRAINT Customer Fkey FOREIGN KEY (Customer Id)
REFERENCES movieticket_db."Customer" (Customer_Id),
CONSTRAINT Seat Fkey FOREIGN KEY (Seat Id)
REFERENCES movieticket db."Seat" (Seat Id),
CONSTRAINT Show_Fkey FOREIGN KEY (Show Id)
REFERENCES movieticket_db."Show" (Show_Id)
)
WITH
  OIDS = FALSE
)
TABLESPACE pg default;
ALTER TABLE IF EXISTS movieticket db. "Ticket"
OWNER to postgres;
```

```
Table 7: Seat
CREATE TABLE IF NOT EXISTS movieticket_db."Seat"
(
Seat_Id int,
Seat No varchar(3) NOT NULL,
Seat_Type varchar(50) NOT NULL,
Price int NOT NULL CHECK (Price>0),
Screen_Id int,
CONSTRAINT Seat Pkey PRIMARY KEY (Seat Id),
CONSTRAINT Screen Fkey FOREIGN KEY (Screen Id)
REFERENCES movieticket_db."Screen" (Screen_Id)
)
WITH
 OIDS = FALSE
)
TABLESPACE pg_default;
```

ALTER TABLE IF EXISTS movieticket\_db."Seat"

OWNER to postgres;

#### Table 8: Meal

```
CREATE TABLE IF NOT EXISTS movieticket_db."Meal"
Food_Item varchar,
Quantity int NOT NULL CHECK (Quantity>0),
Price double precision NOT NULL CHECK (Price>0),
Ticket_No varchar(10),
CONSTRAINT Meal_Pkey PRIMARY KEY (Food_Item,Ticket_No),
CONSTRAINT Ticket Fkey FOREIGN KEY (Ticket No)
REFERENCES movieticket db."Ticket" (Ticket No)
)
WITH
 OIDS = FALSE
)
TABLESPACE pg_default;
ALTER TABLE IF EXISTS movieticket db."Meal"
OWNER to postgres;
```

## **Table 9: Movie**

```
CREATE TABLE IF NOT EXISTS movieticket_db."Movie"
Movie_Id int,
Movie Name varchar NOT NULL,
Movie Type varchar(100) NOT NULL,
Movie Duration int NOT NULL CHECK (Movie Duration>0),
Movie_Language varchar(100) NOT NULL DEFAULT 'HINDI',
Movie Genre varchar(100) NOT NULL,
CONSTRAINT Movie Pkey PRIMARY KEY (Movie Id)
)
WITH
 OIDS = FALSE
)
TABLESPACE pg_default;
ALTER TABLE IF EXISTS movieticket db. "Movie"
OWNER to postgres;
```

```
Table 10: Show
```

```
CREATE TABLE IF NOT EXISTS movieticket db. "Show"
(
Show_Id int,
Screen Id int,
Movie Id int,
Show Date date NOT NULL,
Show StartTime time without time zone NOT NULL,
Show EndTime time without time zone NOT NULL,
CONSTRAINT Show Pkey PRIMARY KEY (Show Id),
CONSTRAINT Screen_Fkey FOREIGN KEY (Screen_Id)
REFERENCES movieticket db."Screen" (Screen Id),
CONSTRAINT Movie Fkey FOREIGN KEY (Movie Id)
REFERENCES movieticket db."Movie" (Movie Id)
)
WITH
  OIDS = FALSE
TABLESPACE pg default;
ALTER TABLE IF EXISTS movieticket db. "Show"
OWNER to postgres;
```

## **Detail Of Populating Data In Tables**

#### **Process:**

- Generate a CSV file using generatedata.com
- Copy data from csv to database table using following statement

## **COPY**

movieticket\_db.movieticket\_db."Customer"(customer\_id,customer\_name,customer\_age, customer\_mobileno,customer\_email,customer\_password)
FROM 'D:/Movie DB/Customer.csv' DELIMITER ',' CSV HEADER;

• Repeat this process for every relation

## Snapshot of populated tables:

#### 1. Admin

	admin_id [PK] integer	admin_name character varying (100)	admin_username character varying (100)	admin_password character varying
1	101	darsh	ceodarsh	abcd123
2	102	viplove	cfoviplove	abc1234
3	103	prayag	cmoprayag	qwe1234
4	104	asish	ctoasish	qwe12
5	105	karan	mdkaran	zz123

#### 2. Customer

	customer_id [PK] integer	customer_name character varying (100)	customer_age integer	customer_mobileno bigint	customer_email character varying	customer_password character varying
1	1	Odessa Benson	28	758563172	dolor@icloud.couk	SFV55GBK5DP
2	2	Leandra Bennett	8	908572754	mollis.phasellus@google.com	BYH41DKR7QM
3	3	Naomi Banks	79	534645184	nibh.phasellus@outlook.org	VTY56LH00KM
4	4	Xandra Mathis	26	646010076	et.magnis.dis@aol.com	VTY35HIW5BT
5	5	Rahim Good	62	824124931	nec.mauris.blandit@aol.ca	MNL96WCH8GW
6	6	Chanda Crane	53	748743778	vitae.semper.egestas@protonmail.n	QLJ76FKR4KK
7	7	Kelly Hernandez	40	436584332	sit@outlook.com	YNP860NL4KW
8	8	Clinton Alvarado	23	589876774	duis.volutpat.nunc@hotmail.com	OXJ52HBT1LU
9	9	Daquan Franklin	78	402447951	praesent.luctus.curabitur@hotmail.ca	UJM38QON4JS
10	10	Flavia Strong	70	748616820	dignissim@yahoo.com	ZCN67GWK8RE
11	11	Wayne Duran	13	351827478	non.nisi@icloud.com	CAH77CQH5NJ
12	12	Richard Hunt	53	234598452	neque.nullam@protonmail.couk	TRE36GHX4OJ
13	13	Karly Buckley	55	272863233	lacus.aliquam@yahoo.net	HRF61C0I6VU
14	14	Elton Dodson	60	351096363	quisque.ac.libero@aol.org	IVL720NC9BN
15	15	Tanek Knowles	19	927261331	etiam@protonmail.edu	MJA70SHJ4AM
Tota	al rows: 100 of 1	00 Query complete 00	:00:00.330			Ln 1

## 3. Meal

	food_item [PK] character varying	quantity integer	price double precision	ticket_no [PK] character varying (10)
1	butter popcorn	5	985.6	A106
2	butter popcorn	4	30.4	A116
3	butter popcorn	4	1387.2	A122
4	butter popcorn	5	288.8	A125
5	butter popcorn	1	1232	A138
6	butter popcorn	5	1387.2	A170
7	butter popcorn	4	63.2	A176
8	butter popcorn	3	93.6	A184
9	caramel popcorn	1	1522.4	A105
10	caramel popcorn	1	432	A107
11	caramel popcorn	2	792.8	A164
12	caramel popcorn	4	418.4	A180
13	caramel popcorn	2	1053.6	A182
14	caramel popcorn	1	722.4	A189
15	cheese nachos	2	636	A128
Tota	Il rows: 100 of 100 Q	uery complete	e 00:00:00.136	

## 4. Movie

	movie_id [PK] integer	movie_name character varying	movie_type character varying (100)	movie_duration integer	movie_language character varying (100)	movie_genre character varying (100)
1	1001	Stage Fright (Deliria)	2D	112	English	Horror
2	1002	Thumbelina	3D	144	English	Animation
3	1003	Moonlight and Cactus	3D	197	Armenian	Comedy
4	1004	Me and Orson Welles	2D	199	Bosnian	Drama
5	1005	Fist of Fury (Chinese Connection, The	3D	158	Yiddish	Action
6	1006	Berlin 36	3D	164	Polish	Drama
7	1007	Age of the Earth, The (A Idade da Terra)	2D	108	Aymara	No Genre
8	1008	Sumo Do, Sumo Don't (Shiko funjatta)	3D	191	Afrikaans	Comedy
9	1009	Humanit??, L'	3D	96	French	Crime
10	1010	The Land Before Time IX: Journey to t	2D	153	English	Adventure
11	1011	Oh Happy Day	3D	182	English	Comedy
12	1012	Eighth Day, The (Den ??ttonde dagen)	2D	145	Hindi	Children
13	1013	Cherry Falls	3D	93	Lithuanian	Comedy
14	1014	Better Than Chocolate	2D	119	Hindi	Comedy
Tota	ıl rows: 100 of	100 Query complete 00:00:00.13	9			Ln 1, Col 1

## 5. Payment

	transaction_id [PK] bigint	amount integer	date date	ticket_no character varying (10)
1	107490	500	2022-08-07	A137
2	110129	500	2021-12-25	A138
3	128580	650	2022-03-15	A163
4	142618	500	2022-02-15	A118
5	144529	650	2022-02-10	A146
6	156041	500	2022-04-04	A148
7	171464	500	2022-05-21	A105
8	172974	500	2022-05-17	A196
9	173533	650	2022-08-20	A136
10	198365	500	2022-06-18	A131
11	210931	650	2022-10-17	A112
12	236199	650	2021-11-26	A133
13	242342	650	2022-08-04	A120
14	248150	650	2022-05-25	A111
15	257747	500	2022-10-18	A125
Tota	l rows: 100 of 100	Query co	mplete 00:00	:00.153

## 6. Screen

	screen_id [PK] integer	screen_no integer	totalseats integer	theater_id integer
1	501	1	391	1
2	502	2	262	1
3	503	3	320	1
4	504	4	382	1
5	505	1	446	2
6	506	2	395	2
7	507	3	205	2
8	508	4	284	2
9	509	5	186	2
10	510	6	438	2
11	511	1	239	3
12	512	2	174	3
13	513	3	407	3
14	514	1	288	4
15	515	2	316	4
Total	rows: 167 of 16	67 Query co	omplete 00:00	:00.135

## 7. Seat

	seat_id [PK] integer	seat_no character varying (3)	seat_type character varying (50)	price integer	screen_id integer
1	1	A1	Recliner	650	501
2	2	A2	Recliner	650	501
3	3	A3	Recliner	650	501
4	4	A4	Recliner	650	501
5	5	A5	Recliner	650	501
6	6	A6	Recliner	650	501
7	7	A7	Recliner	650	501
8	8	A8	Recliner	650	501
9	9	A9	Recliner	650	501
10	10	A10	Recliner	650	501
11	11	A11	Recliner	650	501
12	12	A12	Recliner	650	501
13	13	A13	Recliner	650	501
14	14	A14	Recliner	650	501
15	15	A15	Recliner	650	501
Tota	l rows: 1000 of	4129 Query comple	te 00:00:00.713		

## 8. Show

	show_id [PK] integer	screen_id integer	movie_id integer	show_date date	show_starttime time without time zone	show_endtime time without time zone
1	1	501	1001	2022-03-26	13:28:00	22:45:00
2	2	502	1002	2022-03-14	15:22:00	17:03:00
3	3	503	1003	2022-04-26	11:24:00	11:23:00
4	4	504	1004	2022-08-22	10:10:00	17:37:00
5	5	505	1005	2022-08-30	09:00:00	16:08:00
6	6	506	1006	2022-08-19	09:13:00	13:51:00
7	7	507	1007	2022-01-09	18:26:00	14:34:00
8	8	508	1008	2022-10-16	12:08:00	11:45:00
9	9	509	1009	2022-07-30	19:07:00	12:00:00
10	10	510	1010	2022-02-01	14:55:00	18:19:00
11	11	511	1011	2022-04-22	16:23:00	14:28:00
12	12	512	1012	2022-07-31	16:53:00	19:20:00
13	13	513	1013	2022-09-22	19:57:00	21:44:00
14	14	514	1014	2022-03-28	09:46:00	14:02:00
15	15	515	1015	2022-08-07	19:37:00	19:55:00
Tota	l rows: 167 of 1	67 Query o	complete 00:0	0:00.116		

## 9. Theater

	theater_id [PK] integer	theater_name character varying	theater_location character varying	theater_city character varying	theater_state character varying
1	1	Shelby Molina	7736 Fringilla Av.	Eluru	Uttar Pradesh
2	2	Chancellor Serrano	P.O. Box 692, 8266 Aliquam Street	Thrissur	Tripura
3	3	Isabella Workman	Ap #806-3847 Adipiscing Street	Tirupati	Meghalaya
4	4	Kadeem Garrison	Ap #573-2191 Feugiat Avenue	Eluru	Odisha
5	5	Sarah Pate	619-4008 Eget, Rd.	Ratlam	Tripura
6	6	Cleo Blankenship	Ap #263-5641 Magna St.	Saharanpur	Uttar Pradesh
7	7	Hilary Small	P.O. Box 758, 4020 Orci, Rd.	Nellore	Jammu and Kash
8	8	Ivory Downs	641-7801 Natoque Street	Varanasi	Himachal Pradesh
9	9	Oscar Holland	Ap #251-9026 Dictum. Road	Bharatpur	Telangana
10	10	Lucas Drake	Ap #100-7483 Duis Street	Loni	Odisha
11	11	Steel Dyer	9759 Faucibus Av.	Gandhidham	Tripura
12	12	September Whitehead	Ap #929-9753 Pharetra Ave	Indore	Maharashtra
13	13	Laith Moss	Ap #647-5710 A, Rd.	Guna	Goa
14	14	Sylvia Ryan	3831 Ullamcorper Rd.	Secunderabad	Haryana
15	15	Duncan Estes	942-7547 Orci. Avenue	Ranchi	Haryana
Total	rows: 80 of 80	Query complete 00	:00:00.660		

## 10. Ticket

	ticket_no [PK] character varying (10)	customer_id integer	seat_id integer	show_id integer	amount bigint
1	A101	1	1022	4	650
2	A102	2	2128	6	500
3	A103	3	2812	9	500
4	A104	4	2651	8	500
5	A105	5	2865	9	500
6	A106	6	2284	7	650
7	A107	7	374	1	350
8	A108	8	152	1	500
9	A109	9	17	1	650
10	A110	10	2328	7	500
11	A111	11	2947	10	650
12	A112	12	1901	6	650
13	A113	13	973	3	500
14	A114	14	3852	13	500
15	A115	15	2490	8	650
Tota	l rows: 100 of 100 Query	complete 00:00	:00.158		

## **Implementation**

## **English Queries**

#### **Simple Queries**

- 1. Show Customer Details
- 2. Show Payment Details Whose Amount Is Greater Than 500
- 3. Get Unique List Of Theaters In Jamnagar
- 4. Show Movie Details Of Drama Genre
- 5. Display Today's 14 March 2022
- 6. Show Admin Details
- 7. Write A Query To Display Unique Food Item Using The Alias Name As Delicacies
- 8. Display Show Where Time Is Between 3 PM 11 PM
- 9. Count Total Customer
- 10. Sort Admin By Name
- 11. Count The Number Of Shows On 31 July 2022 Which Were Screened On Screen Id 512
- 12. Display List Of Theaters Excluding The Ones Present In Maharashtra And Madhya Pradesh.
- 13. Find Out The Average Meal Price.
- 14. Print The Count Of Different Types Of Seats.
- 15. Display The Name And Email Of A Customer Who Has 'y' In Their Names.
- 16. Display List Of Movies Which Have Genre Comedy And Type Not 2D.
- 17. Select Details Of Top 2 Highest Price Tickets.
- 18. Display The Total Amount Received In The January Month Of 2022.
- 19. Write A Query To Fetch The Details Of The Last Ticket Sold.
- 20. Print The Details Of Movies Where Genre Is Comedy Or Adventure
- 21. Display Maximum, Minimum And Average Of Transaction Amount.
- 22. Count The Number Of Movies Genre Wise.
- 23. Write A Query To Fetch Only Odd Ids From Customer Table
- 24. Display Meal With Average Price

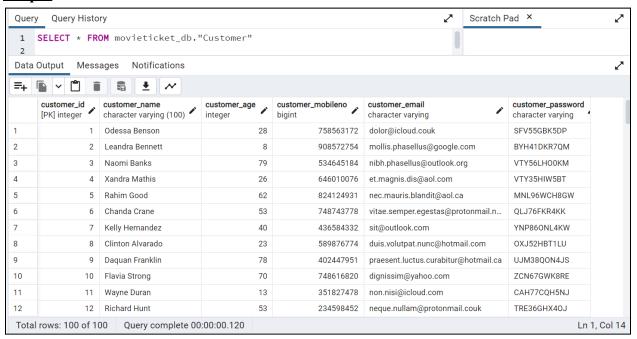
## **Complex Queries**

- 25. Find The Screen With The Maximum Number Of Seats.
- 26. Count The Number Of Seats In Theater Id 2.
- 27. Create And Display A View Of All The Transactions Whose Date Is 17 November 2021.
- 28. Display The List Of Theater Which Have More Than 5 Screens.
- 29. List The Movies Which Have Only One Show.
- 30. Display The Count Of Seats Alongside Seat Type, Price And Sort Them Price Wise In Descending Order.
- 31. Create A View For Admin Details Then Insert And Display Some New Admin To The Recently Created View.
- 32. Create View Of Ticket Whose Amount Is Less Than 500.
- 33. Create View Of All Seat Details.
- 34. Create View Of Movie Where Duration Is Less Than 120 Minutes, Language Is English, And Movie Name Starts With 'S'.
- 35. Display Transaction Ids And Their Amount Whose Amount Is Greater Than Average Amount Spent By User.
- 36. Display The Movie Names Alongside Customer Name Which Are Booked By Customer Id 1
- 37. Display The Details Of The 2nd Highest Amount Paid For A Meal.
- 38. Display Theater Name With Movie Name Where Movie "Thumbelina" Is Running.
- 39. Display Show Details For The Movies Having Duration Less Than 120 Mins.
- 40. Display The Shows In Theater "Oscar Holland"

#### **❖** SQL Statements

#### 1. Show Customer Details

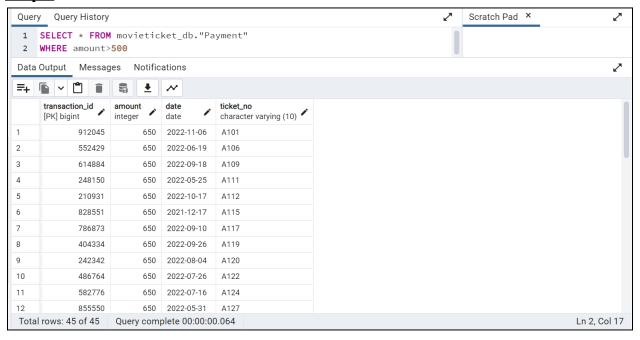
## **SQL** - SELECT \* FROM movieticket\_db."Customer"



**Total Tuples** - 100

2. Show Payment Details Whose Amount Is Greater Than 500

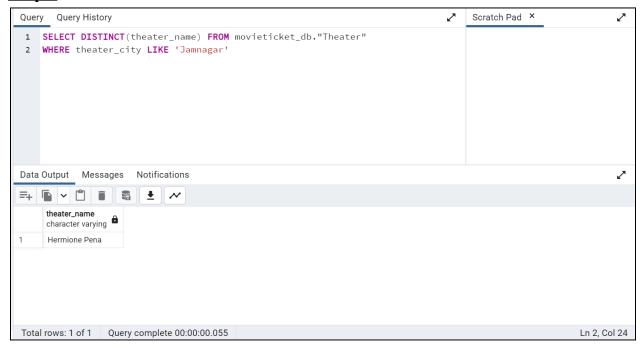
## **SQL** - SELECT \* FROM movieticket\_db."Payment" WHERE amount>500



**Total Tuples** - 45

3. Get Unique List Of Theaters In Jamnagar.

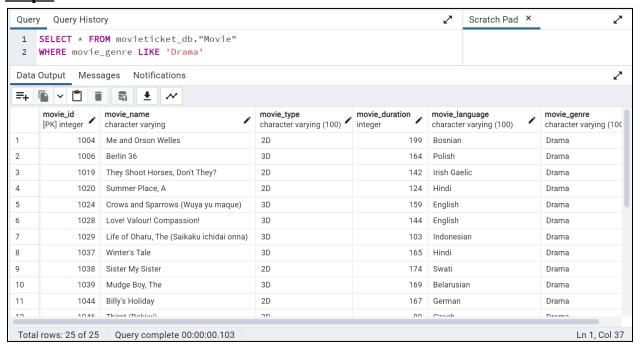
## <u>SQL</u> - SELECT DISTINCT(theater\_name) FROM movieticket\_db."Theater" WHERE theater\_city LIKE 'Jamnagar'



**Total Tuples** - 1

#### 4. Show Movie Details Of Drama Genre

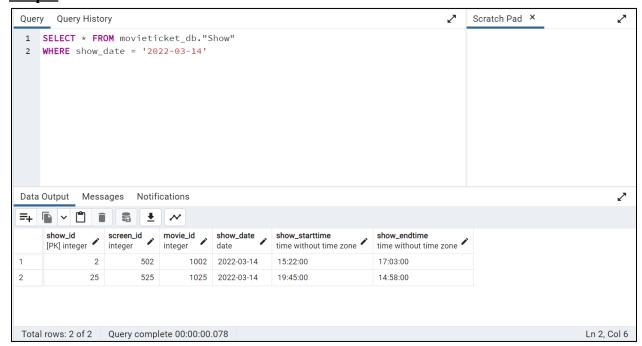
# **SQL** - SELECT \* FROM movieticket\_db."Movie" WHERE movie\_genre LIKE 'Drama'



**Total Tuples** - 25

5. Display Show Details Of 14 March 2022

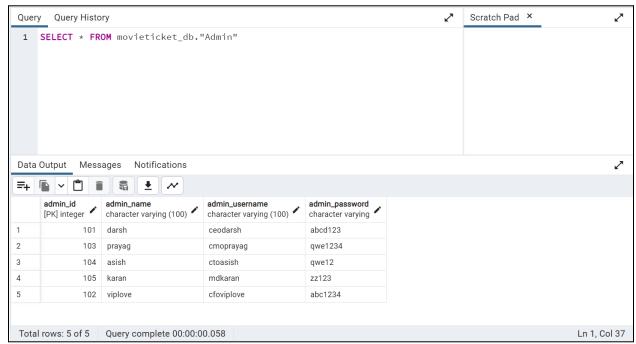
## <u>SQL</u> - SELECT \* FROM movieticket\_db."Show" WHERE show\_date = '2022-03-14'



**Total Tuples** - 2

## 6. Show Admin Details

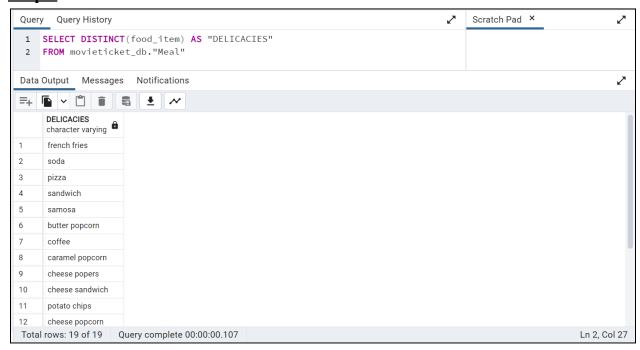
## **<u>SQL</u>** - SELECT \* FROM movieticket\_db."Admin"



**Total Tuples** - 5

7. Write A Query To Display Unique Food Item Using The Alias Name As Delicacies

# **<u>SQL</u>** - SELECT DISTINCT(food\_item) AS "DELICACIES" FROM movieticket\_db."Meal"



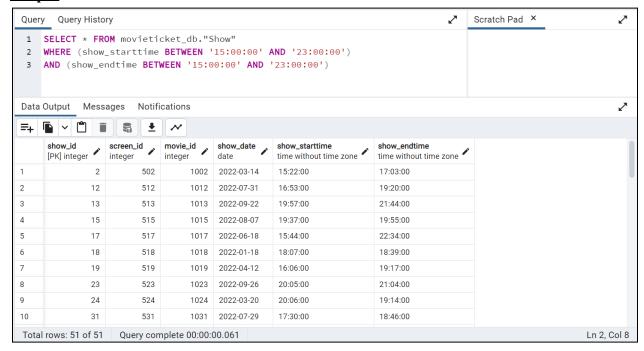
**Total Tuples** - 19

8. Display Show Where Time Is Between 3 PM - 11 PM

<u>SQL</u> - SELECT \* FROM movieticket\_db."Show"

WHERE (show\_starttime BETWEEN '15:00:00' AND '23:00:00')

AND (show\_endtime BETWEEN '15:00:00' AND '23:00:00')



**Total Tuples** - 51

## 9. Count Total Customer

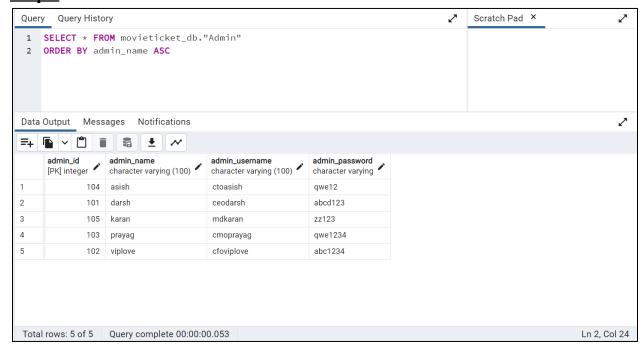
# <u>SQL</u> - SELECT COUNT(customer\_id) AS "NUMBER OF CUSTOMERS" FROM movieticket db."Customer"



**Total Tuples** - 1

## 10. Sort Admin By Name

# <u>SQL</u> - SELECT \* FROM movieticket\_db."Admin" ORDER BY admin\_name ASC



**Total Tuples** - 5

11. Count The Number Of Shows On 31 July 2022 Which Were Screened On Screen Id 512

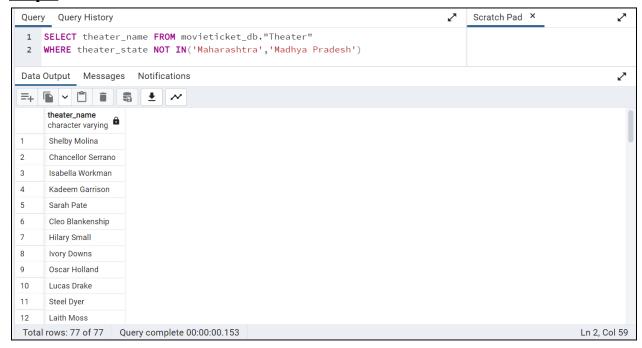
# SQL - SELECT COUNT(show\_id) FROM movieticket\_db."Show" WHERE show date = '31-7-2022'AND screen id=512

## Output -



## **Total Tuples** - 1

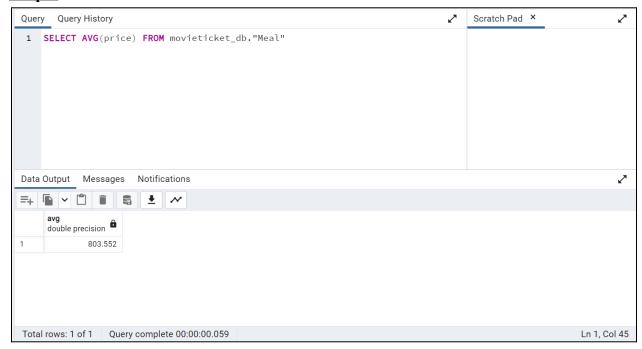
- 12. Display List Of Theaters Excluding The Ones Present In Maharashtra And Madhya Pradesh.
- <u>SQL</u> SELECT theater\_name FROM movieticket\_db."Theater" WHERE theater\_state NOT IN('Maharashtra','Madhya Pradesh')



**Total Tuples** - 77

13. Find Out The Average Meal Price.

## **<u>SQL</u>** - SELECT AVG(price) FROM movieticket\_db."Meal"



**Total Tuples** - 1

14. Print The Count Of Different Types Of Seats.

# <u>SQL</u> - SELECT COUNT(DISTINCT(seat\_type)) FROM movieticket\_db."Seat"



**Total Tuples** - 1

15. Display The Name And Email Of A Customer Who Has 'y' In Their Names.

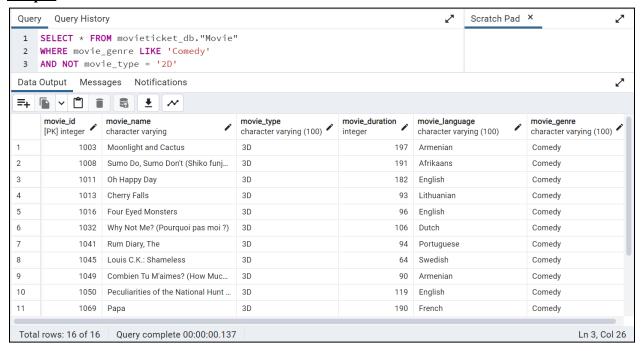
<u>SQL</u> - SELECT customer\_name,customer\_email FROM movieticket\_db."Customer" WHERE customer\_name LIKE '%Y%'



**Total Tuples** - 3

16. Display List Of Movies Which Have Genre Comedy And Type Not 2D.

<u>SQL</u> - SELECT \* FROM movieticket\_db."Movie" WHERE movie\_genre LIKE 'Comedy' AND NOT movie\_type = '2D'

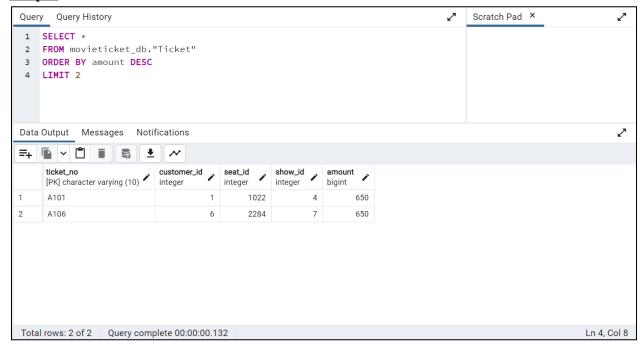


**Total Tuples** - 16

17. Select Details Of Top 2 Highest Price Tickets.

## **SQL** - SELECT \*

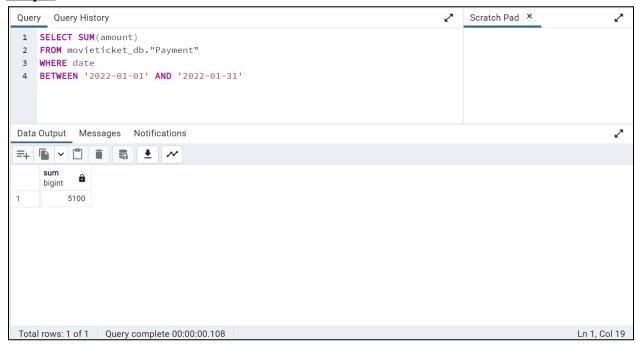
FROM movieticket\_db."Ticket"
ORDER BY amount DESC
LIMIT 2



**Total Tuples** - 2

18. Display The Total Amount Received In The January Month Of 2022.

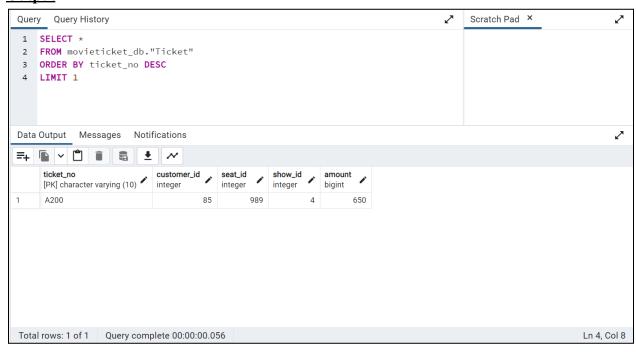
# <u>SQL</u> - SELECT SUM(amount) FROM movieticket\_db."Payment" WHERE date BETWEEN '2022-01-01' AND '2022-01-31'



**Total Tuples** - 1

19. Write A Query To Fetch The Details Of The Last Ticket Sold.

# SQL - SELECT \* FROM movieticket\_db."Ticket" ORDER BY ticket\_no DESC LIMIT 1

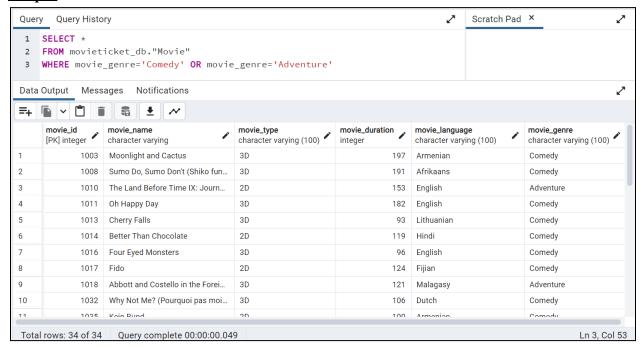


**Total Tuples** - 1

## 20. Print The Details Of Movies Where Genre Is Comedy Or Adventure

## **SQL** - SELECT \*

FROM movieticket\_db."Movie"
WHERE movie\_genre='Comedy' OR movie\_genre='Adventure'



**Total Tuples** - 34

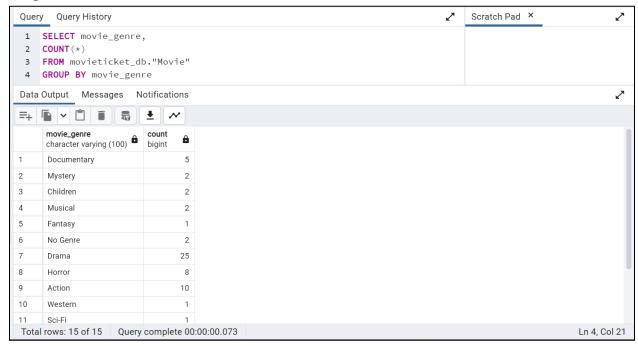
21. Display Maximum, Minimum And Average Of Transaction Amount.

# <u>SQL</u> - SELECT MAX(amount),MIN(amount),AVG(amount) FROM movieticket\_db."Payment"



**Total Tuples** - 1

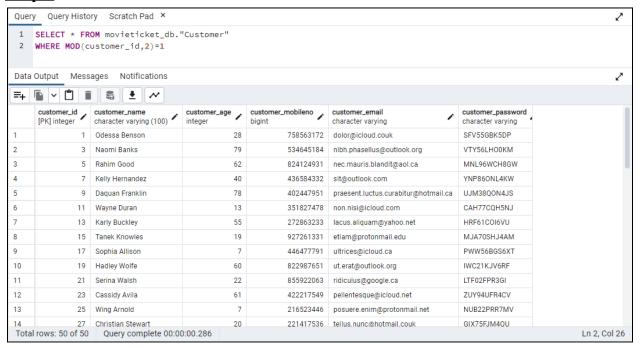
22. Count The Number Of Movies Genre Wise.



**Total Tuples** - 15

### 23. Write A Query To Fetch Only Odd Ids From Customer Table

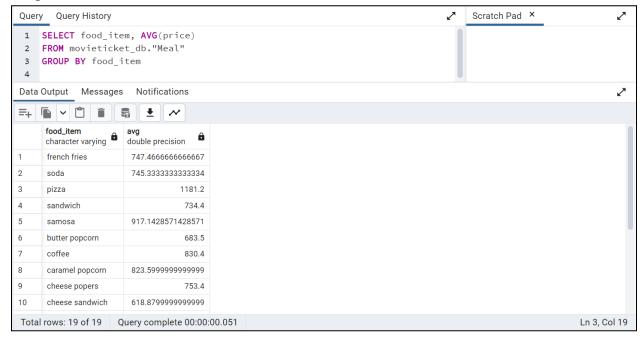
### **<u>SQL</u>** - SELECT \* FROM movieticket\_db."Customer" WHERE MOD(customer\_id,2)=1



**Total Tuples** - 50

### 24. Display Meal With Average Price

<u>SQL</u> - SELECT food\_item, AVG(price) FROM movieticket\_db."Meal" GROUP BY food\_item



**Total Tuples** - 19

25. Find The Screen With The Maximum Number Of Seats.



**Total Tuples** - 1

### 26. Count The Number Of Seats In Theater Id 2

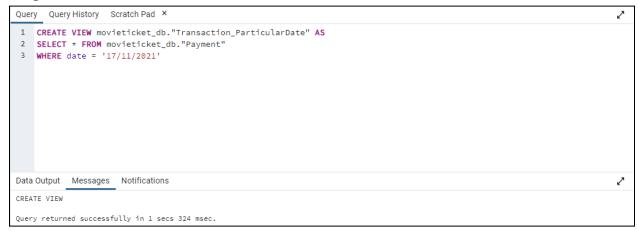
### SQL - SELECT COUNT(Seat\_Id) AS "Theater 2 Seats" FROM movieticket\_db."Seat" ST, movieticket\_db."Screen" SC, movieticket\_db."Theater" TH WHERE ST.screen\_id = SC.screen\_id AND SC.theater\_id = TH.theater\_id AND TH.theater\_id=2



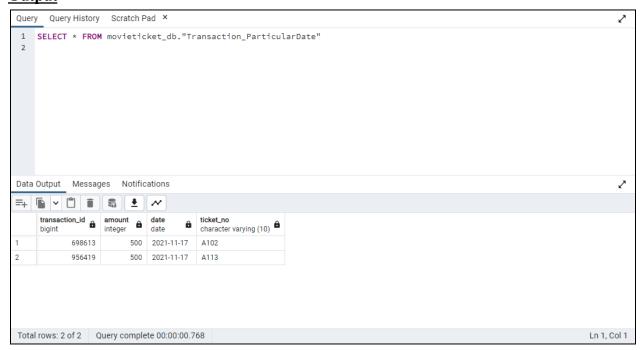
**Total Tuples** - 1

27. Create And Display A View Of All The Transactions Whose Date Is 17 November 2021

### Output -



**SQL** - SELECT \* FROM movieticket\_db."Transaction\_ParticularDate"



**Total Tuple - 2** 

### 28. Display The List Of Theater Which Have More Than 5 Screens

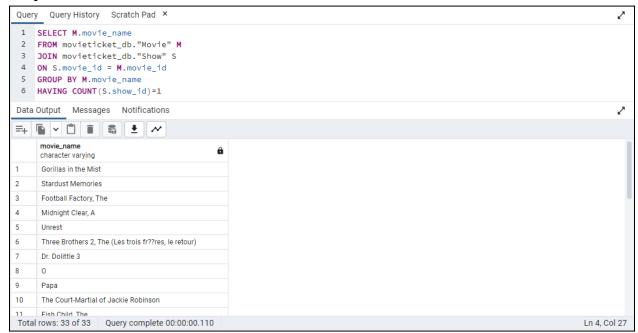
# SQL - SELECT theater\_name FROM movieticket\_db."Theater" T JOIN movieticket\_db."Screen" S ON T.theater\_id=S.theater\_id GROUP BY T.theater\_name HAVING COUNT(T.theater\_name)>5



**Total Tuple - 1** 

29. List The Movies Which Have Only One Show.

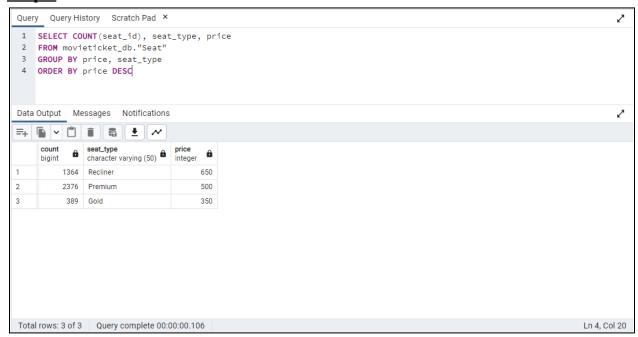
# SQL - SELECT M.movie\_name FROM movieticket\_db."Movie" M JOIN movieticket\_db."Show" S ON S.movie\_id = M.movie\_id GROUP BY M.movie\_name HAVING COUNT(S.show\_id)=1



**Total Tuples** - 33

30. Display The Count Of Seats Alongside Seat Type, Price And Sort Them Price Wise In Descending Order.

<u>SQL</u> - SELECT COUNT(seat\_id), seat\_type, price FROM movieticket\_db."Seat" GROUP BY price, seat\_type ORDER BY price DESC



**Total Tuples** - 3

31. Create A View For Admin Details Then Insert And Display Some New Admin To The Recently Created View

**SQL** - CREATE VIEW movieticket\_db."Admin\_Details" AS SELECT \* FROM movieticket\_db."Admin"

### Output -



```
SQL - INSERT INTO movieticket_db."Admin_Details"
VALUES
(
(SELECT MAX(admin_id)+1 FROM movieticket_db."Admin_Details"),
'Admin',
'Admin123',
'1!2@3#4$'
)
```

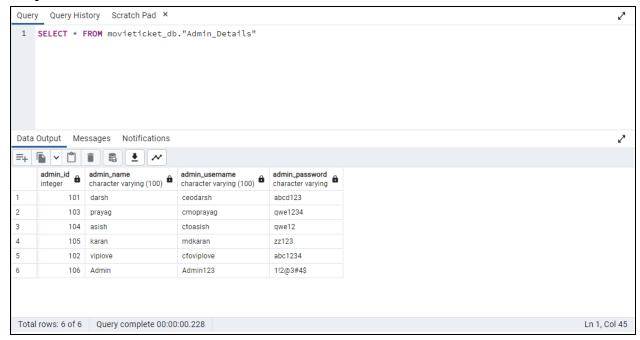
```
Query Plastory Scratch Pad ×

1 INSERT INTO movieticket_db."Admin_Details"
2 VALUES
3 (
4 (SELECT MAX(admin_id)+1 FROM movieticket_db."Admin_Details"),
5 'Admin',
6 'Admin123',
7 '11:2@3#4$'
8 )

Data Output Messages Notifications
```

### **SOL** - SELECT \* FROM movieticket\_db."Admin\_Details"

### Output -



### **Total Tuples** - 6

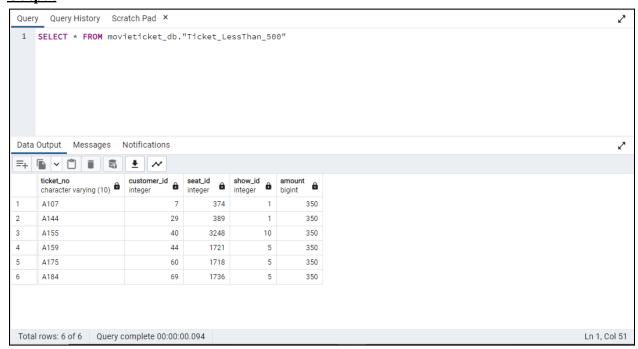
### 32. Create View Of Ticket Whose Amount Is Less Than 500

<u>SQL</u> - CREATE VIEW movieticket\_db."Ticket\_LessThan\_500" AS SELECT \* FROM movieticket\_db."Ticket" WHERE amount<500 ORDER BY ticket\_no ASC

### Output -



**SQL** - SELECT \* FROM movieticket\_db."Ticket\_LessThan\_500"



**Total Tuples** - 6

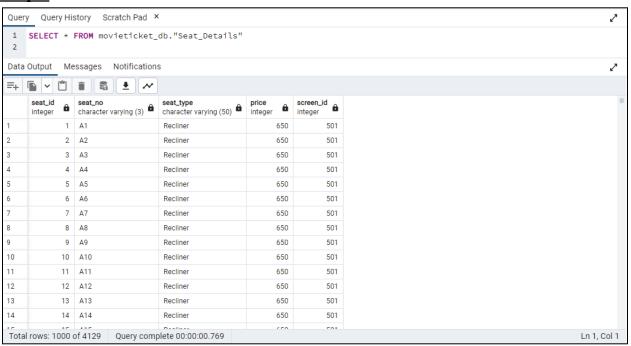
### 33. Create View Of All Seat Details

### **SQL** - CREATE VIEW movieticket\_db."Seat\_Details" AS SELECT \* FROM movieticket\_db."Seat"

### Output -



### **SOL** - SELECT \* FROM movieticket\_db."Seat\_Details"



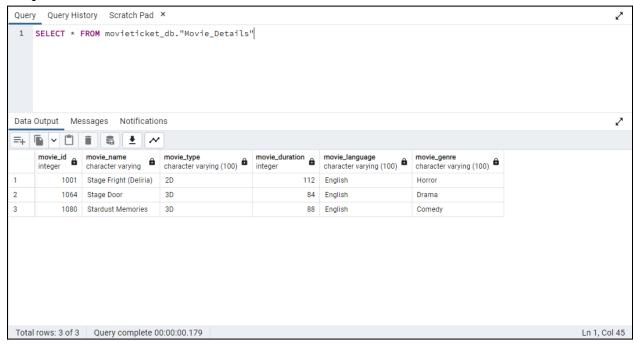
**Total Tuples** - 4129

34. Create View Of Movie Where Duration Is Less Than 120 Minutes, Language Is English, And Movie Name Starts With 'S'

### **Output** -



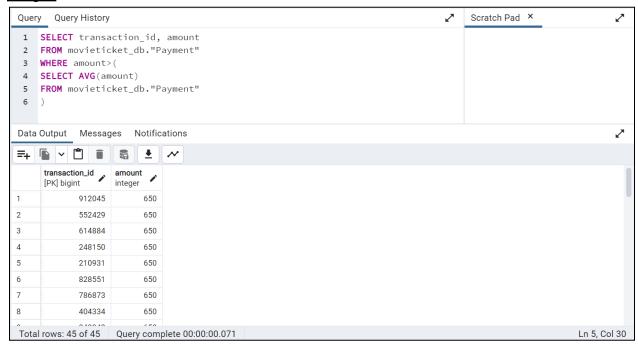
### **SQL** - SELECT \* FROM movieticket\_db."Movie\_Details"



**Total Tuples** - 3

35. Display Transaction Ids And Their Amount Whose Amount Is Greater Than Average Amount Spent By User

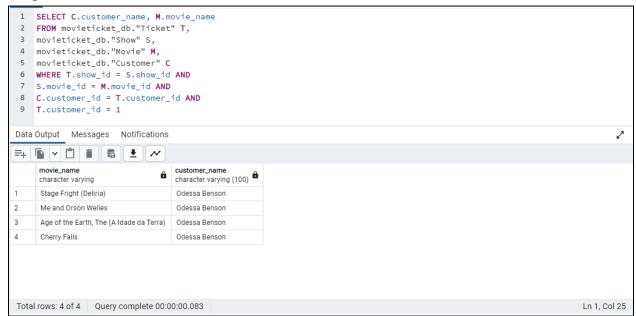
```
SQL - SELECT transaction_id, amount
    FROM movieticket_db."Payment"
    WHERE amount>(
    SELECT AVG(amount)
    FROM movieticket_db."Payment"
)
```



**Total Tuples** - 45

36. Display The Movie Names Alongside Customer Name Which Are Booked By Customer Id 1

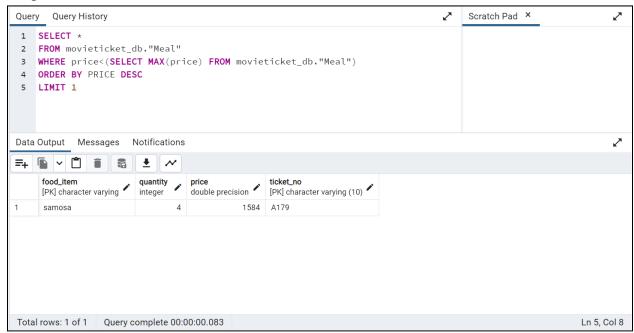
```
SQL - SELECT C.customer_name, M.movie_name
FROM movieticket_db."Ticket" T,
movieticket_db."Show" S,
movieticket_db."Movie" M,
movieticket_db."Customer" C
WHERE T.show_id = S.show_id AND
S.movie_id = M.movie_id AND
C.customer_id = T.customer_id AND
T.customer_id = 1
```



**Total Tuples** - 4

37. Display The Details Of The 2nd Highest Amount Paid For A Meal.

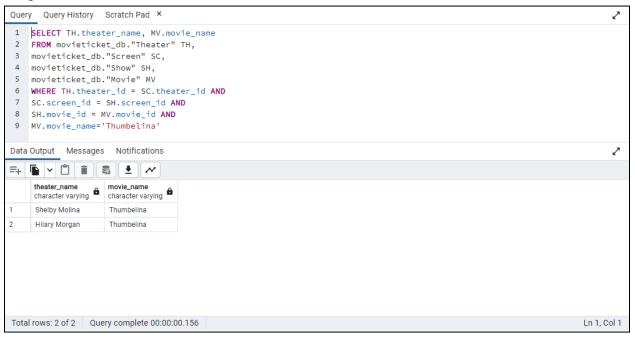
### SQL - SELECT \* FROM movieticket\_db."Meal" WHERE price<(SELECT MAX(price) FROM movieticket\_db."Meal") ORDER BY PRICE DESC LIMIT 1</pre>



**Total Tuples** - 1

38. Display Theater Name With Movie Name Where Movie "Thumbelina" Is Running.

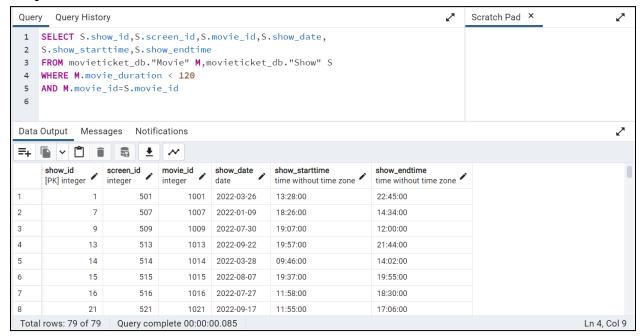
# SQL - SELECT TH.theater\_name, MV.movie\_name FROM movieticket\_db."Theater" TH, movieticket\_db."Screen" SC, movieticket\_db."Show" SH, movieticket\_db."Movie" MV WHERE TH.theater\_id = SC.theater\_id AND SC.screen\_id = SH.screen\_id AND SH.movie\_id = MV.movie\_id AND MV.movie\_name='Thumbelina'



**Total Tuples** - 2

39. Display Show Details For The Movies Having Duration Less Than 120 Mins.

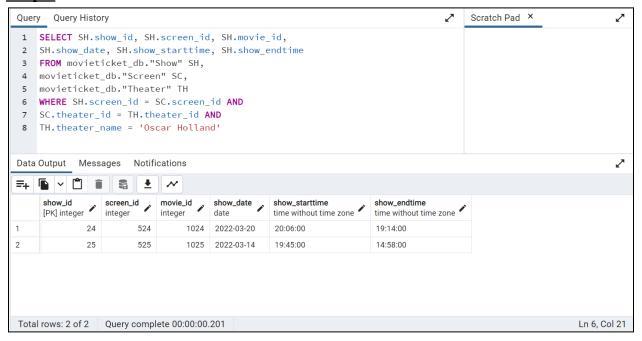
<u>SQL</u> - SELECT S.show\_id,S.screen\_id,S.movie\_id,S.show\_date, S.show\_starttime,S.show\_endtime FROM movieticket\_db."Movie" M,movieticket\_db."Show" S WHERE M.movie\_duration < 120 AND M.movie id=S.movie id



**Total Tuples** - 79

### 40. Display The Shows In Theater "Oscar Holland"

SQL - SELECT SH.show\_id, SH.screen\_id, SH.movie\_id,
SH.show\_date, SH.show\_starttime, SH.show\_endtime
FROM movieticket\_db."Show" SH,
movieticket\_db."Screen" SC,
movieticket\_db."Theater" TH
WHERE SH.screen\_id = SC.screen\_id AND
SC.theater\_id = TH.theater\_id AND
TH.theater\_name = 'Oscar Holland'



**Total Tuples - 2**