**Load the data set to the database.**

**1.Go to sql shell**

**2.Enter password and connect to the server**

**3.Create database**

**postgres=# CREATE DATABASE dvdrental;**

**4.Open cmd..change the path to**

**C:\Program Files\PostgreSQL\15\bin**

**5.Run the following in cmd**

**pg\_restore -U postgres -d dvdrental C:\Users\ASUS\Downloads\dvdrental.tar**

* The -U postgres specifies the Postgres user to login to the PostgreSQL database server.
* The -d dvdrental specifies the target database to load.

Finally, enter the password for the **postgres** user and press enter

6.Open PG Admin>servers>PostgreSQL15>Databases>dvdrental>schemas>Tables

These tables are to be converted to star schemas

7.Right click table>>query tools

--no of customers

select count(\*) from customer;

--payment date range

select min(payment\_date) min\_payment,max(payment\_date) max\_payment from payment;

REAL ANALYSIS

1.How many sales is made from a particular film?(Track down payment information related to film info)Always refer the diagram.( Postgresq-database-diagram)

Since the tables are not connected directly so we will use multiple joining conditions.So we will go via payment>rental>inventor>film.

SELECT film.title, amount FROM payment

LEFT JOIN rental ON rental.rental\_id=payment.rental\_id

LEFT JOIN inventory ON inventory.inventory\_id=rental.inventory\_id

LEFT JOIN film ON film.film\_id=inventory.film\_id;

2.What is the revenue generated by each film?

SELECT film.title, sum(amount) as revenue FROM payment

LEFT JOIN rental ON rental.rental\_id=payment.rental\_id

LEFT JOIN inventory ON inventory.inventory\_id=rental.inventory\_id

LEFT JOIN film ON film.film\_id=inventory.film\_id

Group By film.title

Order By film.title;

**3.Highest Revenue film?**

SELECT film.title, sum(amount) as revenue FROM payment

LEFT JOIN rental ON rental.rental\_id=payment.rental\_id

LEFT JOIN inventory ON inventory.inventory\_id=rental.inventory\_id

LEFT JOIN film ON film.film\_id=inventory.film\_id

Group By film.title

Order By sum(amount) desc

LIMIT 1;

4. **Lowest Revenue film?**

SELECT film.title, sum(amount) as revenue FROM payment

LEFT JOIN rental ON rental.rental\_id=payment.rental\_id

LEFT JOIN inventory ON inventory.inventory\_id=rental.inventory\_id

LEFT JOIN film ON film.film\_id=inventory.film\_id

Group By film.title

Order By sum(amount) ASC

LIMIT 1;

5.Top city that is providing the most of the revenue.

select city.city, sum(amount) from payment

left join customer

on customer.customer\_id=payment.customer\_id

left join address

on address.address\_id=customer.address\_id

left join city

on city.city\_id=address.city\_id

group by city.city

order by sum(amount) desc

limit 1;