

Queries:

-- 1 Movies that are currently running in PVR Cinemas Lower Parel with Theatre PIN = 161718

```
SELECT DISTINCT MovieName FROM Screens NATURAL JOIN
Movies WHERE TheatreName = 'PVR Cinemas Lower Parel' AND
TPIN = 161718;
```

-- 2 All Movies of actor Viggo Mortensen

```
SELECT MovieName FROM Actors NATURAL JOIN Movies WHERE
ActorName = 'Viggo Mortensen';
```

-- 3 All Reviews with fname,lname,rating,comments of eventname = Taste of Culture

```
SELECT FirstName,LastName,Rating,Comments FROM Users
NATURAL JOIN EventReviews NATURAL JOIN Events WHERE
EventName = 'Taste of Culture';
```

-- 4 FirstName LastName of people who went to see Andhadhun movie

```
SELECT FirstName,LastName FROM Users NATURAL JOIN
Tickets NATURAL JOIN Movies WHERE MovieName = 'Andhadhun';
```

-- 5 Top 5 movies on the basis of no of tickets sold

```
SELECT count(TicketID) as No_of_Tickets_sold,MovieName FROM  
Tickets NATURAL JOIN Movies GROUP BY MovieName ORDER BY  
No_of_Tickets_sold DESC LIMIT 5;
```

-- 6 All the information of eventnames,eventdate,venue name of garba events hosted by infinity events

```
SELECT EventName,Event_Date,VenueName  
FROM Events NATURAL JOIN EventOrganisers NATURAL JOIN  
Venues WHERE Organisation_Name = 'Infinity Events' AND  
Event_Type = 'Garba Events';
```

-- 7 Top events on the basis of no of tickets sold

```
SELECT EventName,Event_Date,Event_Type,Count(TicketID) As  
No_of_tickets FROM EVENTS NATURAL JOIN TICKETS GROUP  
BY EventName,Event_Date,Event_Type ORDER BY No_Of_tickets  
DESC;
```

-- 8 List of all Music Events,organisationname,eventname,venue name hosted before 2025

```
SELECT Organisation_Name,EventName,VenueName  
FROM Events NATURAL JOIN EventOrganisers  
WHERE Event_Type='Music' AND Event_Date<='2024-12-31';
```

-- 9 All Theatres,TPIN,show_date,starttime,ScreendNo ,Language of the movie "The Lion King" of Gujarat State

```
SELECT TheatreName, TPIN, Show_Date, StartTime,ScreenNo,  
Language FROM Shows NATURAL JOIN Screens NATURAL JOIN  
Movies NATURAL JOIN Theatres WHERE MovieName =  
'Andhadhun' AND State='Gujarat';
```

-- 10 Top 5 Users of our platform on the basis of the Totalamt they spent

```
SELECT FirstName,LastName,SUM(TotalAmt) as TotalAmtPaid  
FROM Users NATURAL JOIN Tickets NATURAL JOIN Payments  
GROUP BY FirstName,LastName ORDER BY SUM(TotalAmt) DESC  
LIMIT 5;
```

-- 11 Top 5 Artists On the Basis of No Of Tickets Sold

```
SELECT ArtistName,count(TicketId) AS No_Of_Tickets_Sold  
FROM Artists NATURAL JOIN Events NATURAL JOIN TICKETS  
GROUP BY ArtistName ORDER BY No_Of_Tickets_Sold DESC  
LIMIT 5;
```

-- 12 Logged In Users On Our Platform But haven't Bought Any Tickets Yet

```
SELECT UserId FROM Users  
EXCEPT  
SELECT UserId FROM Tickets
```

-- 13 users Who have bought Atleast One Ticket

```
SELECT UserId,FirstName,LastName FROM (SELECT UserId
FROM Users INTERSECT
SELECT UserId FROM Tickets) NATURAL JOIN Users
```

-- 14 Top 3 Venues of 'Food Festival' event

```
SELECT VenueName,Vpin, count(EventId) AS
No_of_Art_Exhibitions_hosted, Event_type
FROM Events NATURAL JOIN Venues
WHERE Event_Type = 'Food Festival'
GROUP BY VenueName,Vpin,Event_Type ORDER BY
count(EventId) DESC
LIMIT 3;
```

-- 15 List of users who have both Movie and Event tickets

```
SELECT FirstName,LastName,UserId FROM Users NATURAL JOIN
Tickets WHERE EventID is NULL
INTERSECT
SELECT FirstName,LastName,UserId FROM Users NATURAL JOIN
Tickets WHERE MovieId Is NULL ;
(Users Who have bought Both tickets of events and Moives From My
platform)
```

-- 16 Gives average rating of each Event

```
SELECT Avg(Rating) as average_rating,EventName,EventId
FROM Events NATURAL JOIN EventReviews GROUP BY
EventName,EventId;
```

-- 17 Lists the upcoming events with their Venue Name and Venue PIN as well as the number of tickets that have been sold for those events

```
SELECT EventName,VenueName,VPIN,count(TicketID) as  
no_tickets FROM Events NATURAL JOIN Venues NATURAL JOIN  
Tickets WHERE Event_Status ='upcoming' GROUP BY  
EventName,VenueName,VPIN;
```

-- 18 Lists top 5 trending Event Categories in people of age 18 to 30

```
SELECT Event_Type,count(Userid) as number_of_attendees FROM  
(SELECT Userid FROM  
(SELECT UserID,EXTRACT(YEAR FROM  
CURRENT_DATE)-EXTRACT(YEAR FROM DOB) AS AGE FROM  
USERS)  
WHERE Age>=18 AND Age<=30)  
NATURAL JOIN TICKETS NATURAL JOIN EVENTS  
GROUP BY Event_Type ORDER BY count(Userid) DESC  
LIMIT 5;
```

-- 19 Lists top 5 trending Movies in people of age 18 to 30

```
SELECT MovieName,count(Userid) as audience_count FROM  
(SELECT Userid FROM  
(SELECT UserID,EXTRACT(YEAR FROM  
CURRENT_DATE)-EXTRACT(YEAR FROM DOB) AS AGE FROM  
USERS)  
WHERE Age>=18 AND Age<=30)  
NATURAL JOIN TICKETS NATURAL JOIN Movies  
GROUP BY MovieName ORDER BY count(Userid) DESC  
LIMIT 5;
```

-- 20 Top 5 highest rated movies of all time with their respective ratings

```
SELECT MovieName,MovieID,Avg(Rating) as rating  
FROM Movies NATURAL JOIN MovieReviews  
GROUP BY MovieName,MovieID  
ORDER BY Avg(Rating) DESC  
LIMIT 5;
```

-- 21 Lists VenueName,Venue's PIN and total revenue earned

```
SELECT VenueName,VPIN,SUM(RENT) as Total_Revenue
FROM Venues NATURAL JOIN EVENTS
GROUP BY VenueName,VPIN;
```

-- 22 Lists all the events sponsored by Firm 'TechCorp Solutions' with the Organiser of that event and the Total number of tickets sold for that event

```
SELECT EventName,Organisation_Name,count(TicketID) as
no_of_tickets_sold
FROM Tickets NATURAL JOIN Events NATURAL JOIN Sponsors
NATURAL JOIN EventOrganisers
WHERE FirmName = 'TechCorp Solutions' GROUP BY
EventName,Organisation_Name;
```

-- 23 Lists details of all the Sponsors of 'Food Festival' events

```
SELECT FirmName,SPIN,ContactNo,Emailid,Street,City,State
FROM Sponsors NATURAL JOIN sponsors
NATURAL JOIN Events WHERE Event_Type = 'Food Festival';
```

-- 24 Gives the average discount offered on each type of ticket

```
SELECT category,AVG(price - TotalAmt) AS Avg_Discount
FROM Tickets NATURAL JOIN Payments GROUP BY Category
```

-- 25 Gives total revenue generated by a Theatre and details of that Theatre

```
SELECT SUM(price) AS
Total_Amt_generated_by_selling_tickets,TPIN,TheatreName
FROM Tickets NATURAL JOIN Movies NATURAL JOIN screens
Group BY TPIN,TheatreNAME ORDER BY
Total_Amt_Generated_by_selling_tickets DESC;
```

-- 26 Provide the total number of attendees who come from regions distinct from the venue for all events.

```
SELECT Eventid,EventName,City,State,count(Userid)
FROM USERS NATURAL JOIN TICKETS NATURAL JOIN EVENTS
as r1 JOIN Venues
on r1.venueName=venues.venueName AND r1.vpin=venues.vpin
WHERE (upin/10000) != (venues.vpin/10000)
GROUP BY Eventid,EventName,City,State;
```

-- 27 Displays the number of tickets sold and the total revenue generated from ticket sales for any event featuring a specific artist's performance.

```
SELECT ArtistName,EventName,count(TicketID) AS
No_Of_Tickets,sum(TotalAmt) AS Total_Revenue
FROM Events NATURAL JOIN Artists NATURAL JOIN
Tickets NATURAL JOIN Payments GROUP BY
ArtistName,EventName ORDER BY Total_Revenue DESC;
```

-- 28 Gives most used payment modes among people buying 'Premium' category tickets

```
SELECT Payment_Mode,Category,count(Payment_Mode)
FROM Payments NATURAL JOIN Tickets
WHERE Category='Premium'
GROUP BY Payment_Mode,Category ORDER BY
count(Payment_Mode) DESC;
```

-- 29 Displays the State wise Movies, no. of shows of the respective movie and its language between 8 P.M. and 12 P.M. on 3rd April 2024

```
SELECT MovieName,Language,State,count(StartTime)as
no_of_shows FROM Shows
NATURAL JOIN Theatres NATURAL JOIN Screens NATURAL JOIN
Movies WHERE StartTime>='20:00:00' AND StartTime<='24:00:00'
AND Show_Date='2024-04-03'
GROUP BY MovieName,Language,State ORDER BY State;
```

-- 30 Lists Event Organiser and the total revenue generated by them

```
SELECT Organisation_Name,SUM(TotalAmt) as  
Total_Revenue,Count(EventID)  
as No_of_Events  
FROM  
Events NATURAL JOIN TICKETS NATURAL JOIN PAYMENTS  
NATURAL JOIN EventOrganisers  
GROUP BY Organisation_Name  
ORDER BY Total_Revenue DESC;
```

-- 31 Lists events with female attendance.

```
SELECT Event_Type,COUNT(UserID) as  
number_of_female_attendees FROM  
EVENTS NATURAL JOIN TICKETS NATURAL JOIN USERS  
WHERE Gender='F'  
GROUP BY Event_Type ORDER BY COUNT(UserID) DESC;
```

-- 32 Displays the average revenue a theater generates per individual show.

```
SELECT TheatreName,AVG(TotalAmt) as revenue_per_day  
FROM Shows NATURAL JOIN Screens NATURAL JOIN Theatres  
NATURAL JOIN Tickets  
NATURAL JOIN Payments GROUP BY TheatreName ORDER BY  
AVG(TotalAmt) DESC;
```


-- 33 Lists the most authentic and trusted reviews for Events and Movies

Part-1

```
SELECT FirstName,LastName,r1.EventID ,Comments
FROM USERS NATURAL JOIN EventReviews as r1 JOIN Tickets
ON
r1.UserId=Tickets.UserId AND r1.EventID=Tickets.EventID;
```

Part-2

```
SELECT FirstName,LastName,r1.MovieID ,Comments
FROM USERS NATURAL JOIN MovieReviews as r1 JOIN Tickets
ON
r1.UserId=Tickets.UserId AND r1.MovieID=Tickets.MovieID;
```

-- 34 Displays details of movies with average rating greater than '4'

```
SELECT MovieID,MovieName,AVG(Rating) as average_rating FROM
MOVIES NATURAL JOIN MovieReviews
GROUP BY MovieID,MovieName
HAVING AVG(Rating)>=4;
```

-- 35 Displays the average ratings for events with a specific artist and for movies with a particular actor or actress.

Part-1

```
SELECT ArtistName, AVG(Rating) FROM
ARTISTS NATURAL JOIN EventReviews
GROUP BY ArtistName
ORDER BY AVG(Rating) DESC;
```

Part-2

```
SELECT ActorName, AVG(Rating) FROM
ACTORS NATURAL JOIN MovieReviews
GROUP BY ActorName
ORDER BY AVG(Rating) DESC;
```