**Problem statement :**

We have below tables present in Mysql :

**Seat\_bookings, which is a snapshot of seat bookings done in a theatre for a date**

* + Booking ID
  + Booked seat number
  + Row in which that seat belongs
  + Theatre id
  + Movie date on which movie will be played

**Theatres, which holds info like**

* + Theatre id,
  + Theatre name,
  + Row Name
  + Total number of seats in a row in a theatre

**Movies, which holds info like**

* + Movie id
  + Movie name
  + Theatre id where movies will be played.

ERD :

A screenshot of a cell phone

Description automatically generated

Basic EDA details:

* Seats booking table has snapshot for 3 movie dates :

2019-11-03

2019-11-04

2019-11-05

* If there is no entry of any seat in a row of theatre in seat\_bookings table on a movie date, it means that complete row is empty and all the seats in that row as per theatre table are available for booking on that date.
* Records in seat\_bookings tables are already in ascending order of movie\_date,theatreID, rowName and seatnumber.
* Refer attached excel sheet for a better view of the data.

Below are the tasks we need to do:

* Import all these tables from MySQL to a hive table.
* Three friends wanted to book movie ticket on any of these dates but only requirement is that they need three continuous seats in any theater on any date. They are fine to watch any movie.
* We need to find below details from these tables if we find three continous seats as per information in seat\_bookings table which gives a snaphot of seat bookings in a theatre on a date.
* Get Movie date, theatreID,Theatre Name, movieID, Movie name,row Name, current seat, Next seat, total seats in the row
* Sample output :

