

BMS College of Engineering, Bengaluru-560019.

Department of Computer Application, Big Data
AAT



Project - Movie Ticket Booking System using HIVE

Submitted by,
Sharan N (1BM21MC046)
Nandhini S P (1BM21MC032)

TABLE OF CONTENTS

Abstract	3
Introduction	4
List of Entities & Attributes	6
ER Diagram	8
Database Schema	9
Create and Insert HIVE Queries	11

ABSTRACT

The Movie Ticket Booking System facilitates the users to enquire about the recent movies available movies, booking and cancellation of movie tickets according to theatre type and class type, enquire about the status of the booked tickets, etc. The aim of this project is to design a website that gives an easy platform for people to get details of trending films and to get movie tickets in the easiest possible way making it simple for all to buy tickets from anytime and anywhere. This project contains introduction to movie ticket booking system. It is computerized way of reserving the seats of movie in advanced. This online movie ticket booking system can make the process of booking movie tickets much easier than ever before. Then this project contains entity relationship model diagram based on movie ticket booking system an introduction to relational model also example of some sql queries to retrieve data from the database of this system.

INTRODUCTION

Database is an organized collection of data. The data is typically organized to model aspects of reality in a way that supports processes requiring information. A DBMS makes it possible for end users to create, read, update and delete data in a database. The DBMS essentially serves as an interface between the database and end users or application programs, ensuring that data is consistently organized and remains easily accessible. The DBMS manages three important Things: the data, the database engine that allows data to be accessed, locked or modified and the database schema, which defines the database's logical structure. These three foundational elements help provide concurrency, security, data integrity and uniform administration procedures. The DBMS can offer both logical and physical data independence. That means it can protect users and applications from needing to know where data is stored or having to be concerned about changes to the physical structure of data. The main purpose of maintaining a database for Movie Ticket Booking System is to reduce

the manual errors involved in the bookings and cancellation of tickets and make it convenient for the customers and the providers to maintain the data about their customers and also about the seats available at them. Due to automation many loopholes that exist in the manual maintenance of the records can be removed. The speed of obtaining and processing the data will be fast. For future expansion the proposed system can be web enabled so that clients can make various enquiries about movie ticket booking. Due to this, sometimes a lot of problems occur and they are facing many disputes with the customers. To solve the above problem, we design a database which includes customer details, availability of movie seats, etc.

LIST OF ENTITIES & ATTRIBUTES

Entities	Attributes
Movie	MovieID Title Description Duration Language Releasedate Country Genre
Show	ShowID Date Starttime Endtime CinemahallID MovieID
Booking	BookingID NumberofSeats Time States UserID ShowID
User	UserID Name Password Email Phone

Cinema Hall	CinemahallID Name TotalSeats CinemaID
Cinema	CinemaID Name Total Cinemahalls CityID
Show Seat	ShowseatID Status Price CinemaseatID ShowID BookingID
Payment	PaymentID Account CouponID TransactionID Paymentmethod BookingID
City	CityID Name State Zipcode
Cinema Seat	CinemaseatID Seatnumber Type CinemahallID

Database Schema

MOVIE

MovieID	Title	Description	Duration	Language	Releasedate	Country	Genre
---------	-------	-------------	----------	----------	-------------	---------	-------

SHOW

ShowID	Date	Start Time	End Time	CinemahallID	Movie ID
--------	------	------------	----------	--------------	----------

BOOKING

BookingID	No of Seats	Time	States	UserID	ShowID
-----------	-------------	------	--------	--------	--------

USER

UserID	Name	Password	Email	Phone
--------	------	----------	-------	-------

CINEMA HALL

CinemahallID	Name	Total Seats	CinemaID
--------------	------	-------------	----------

CINEMA

CinemaID	Name	Total Cinemahalls	CityID
----------	------	----------------------	--------

SHOWSEAT

Showseat ID	Status	Price	Cinemaseat ID	ShowID	Booking ID
----------------	--------	-------	------------------	--------	---------------

PAYMENT

PaymentID	Account	Coupon ID	Transaction ID	Payment Method	Booking ID
-----------	---------	--------------	-------------------	-------------------	---------------

CITY

CityID	Name	State	Zipcode
--------	------	-------	---------

CINEMA SEAT

Cinemaseat ID	Seat Number	Type	CinemahallID
---------------	----------------	------	--------------

Create Database Using HIVE

Create Database

```
hive> create database Movie;  
OK  
Time taken: 0.865 seconds  
hive> use Movie;  
OK
```

Create Table Movies

```
hive> create table Movies(MovieID int,Title string,Description string,Duration string,Language string,Releasedate string,Country string,Genre string)  
> row format delimited  
> fields terminated by '\t'  
> lines terminated by '\n'  
> ;  
OK  
Time taken: 2.778 seconds
```

Describe Movies table

```
hive> Desc Movies;  
OK  
movieid                int  
title                  string  
description             string  
duration               string  
language               string  
releasedate            string  
country                string  
genre                  string
```

Show Table

```
hive> Create table Show(ShowID int,Date date,Starttime string,endtime string,CinemahallID
t,MovieID int)
  > row format delimited
  > fields terminated by '\t'
  > lines terminated by '\n'
  > ;
OK
```

Describe show table

```
hive> Desc Show;
OK
showid                int
date                  date
starttime             string
endtime               string
cinemahallid          int
movieid               int
```

Booking Table

```
hive> create table Booking(BookingID int
  > ,Numberofseats int,time string,States string,UserID int,ShowID int)
  > row format delimited
  > fields terminated by '\t'
  > lines terminated by '\n'
  > ;
OK
Time taken: 0.373 seconds
```

User Table

```
hive> Create table User(UserID int,Name string>Password string>Email string>Phone string)
> row format delimited
> fields terminated by '\t'
> lines terminated by '\n'
> ;
OK
Time taken: 0.317 seconds
```

```
hive> Desc User;
OK
userid                int
name                  string
password              string
email                 string
phone                 string
Time taken: 0.312 seconds, Fetched: 5 row(s)
```

Cinema Hall table

```
hive> create table Theatre(CinemahallID int>Name string>Totalseats int>CinemaID int)
> row format delimited
> fields terminated by '\t'
> lines terminated by '\n'
> ;
OK
Time taken: 0.269 seconds
```

```
hive> Desc Theatre;
OK
cinemahallid          int
name                  string
totalseats            int
cinemaaid             int
Time taken: 0.196 seconds, Fetched: 4 row(s)
```

Cinema Table

```
hive> create table Cinema(CinemaID int,Name string,Totalcinemahalls int,CityID int
> row format delimited
> fields terminated by '\t'
> lines terminated by '\n'
> ;
OK
Time taken: 0.387 seconds
```

```
hive> Desc Cinema;
OK
cinemaid          int
name              string
totalcinemahalls  int
cityid            int
Time taken: 0.713 seconds, Fetched: 4 row(s)
```

Show seat Table

```
hive> create table Showseat(ShowseatID int,Status string,price int,CinemaseatID int,ShowID
nt,BookingID int)
> row format delimited
> fields terminated by '\t'
> lines terminated by '\n'
> ;
OK
Time taken: 0.133 seconds
```

```
hive> Desc Showseat;
OK
showseatid        int
status            string
price             int
cinemaseatid      int
showid            int
bookingid         int
Time taken: 0.135 seconds, Fetched: 6 row(s)
```

Payment table

```
hive> Create table Payment(PaymentID int,Account int,CouponID int,TransactionID int,PaymentMethod string,BookingID int)
> row format delimited
> fields terminated by '\t'
> lines terminated by '\n'
> ;
OK
Time taken: 0.174 seconds
```

```
hive> Desc Payment;
OK
paymentid                int
account                   int
couponid                  int
transactionid             int
paymentmethod             string
bookingid                 int
```

Load data into tables

Movie Table

```
hduser@rahul-virtual-machine:~$ cat>Movie2
```

11	Master	Good	2Hrs	Tamil	22-10-2021	India	Drama
12	Doctor	Nice	3Hrs	Tamil	9-02-2022	India	Comedy
13	Valimai	Good	2.5hrs	Tamil	19-02-2022	India	Action
14	RRR	Nice	3Hrs	Telugu	08-07-2022	India	Action
15	Veeram	Good	2Hrs	Tamil	10-05-2022	India	Drama

```
hive> select * from Movies;
```

```
OK
```

11	Master	Good	2Hrs	Tamil	22-10-2021	India	Drama
12	Doctor	Nice	3Hrs	Tamil	9-02-2022	India	Comedy
13	Valimai	Good	2.5hrs	Tamil	19-02-2022	India	Action
14	RRR	Nice	3Hrs	Telugu	08-07-2022	India	Action
15	Veeram	Good	2Hrs	Tamil	10-05-2022	India	Drama

```
Time taken: 0.046 seconds, Fetched: 5 row(s)
```

Show table

```
hduser@rahul-virtual-machine:~$ cat>show2
```

21	9:00	11:00	31	11
22	10:00	12:30	32	12
23	8:00	11:00	32	13
24	9:00	12:00	33	13
25	6:00	8:30	34	14
26	12:00	2:00	35	15

```
hive> select * from show;
```

```
OK
```

21	9:00	11:00	31	11
22	10:00	12:30	32	12
23	8:00	11:00	32	13
24	9:00	12:00	33	13
25	6:00	8:30	34	14
26	12:00	2:00	35	15

```
Time taken: 0.021 seconds, Fetched: 6 row(s)
```


User table

```
hduser@rahul-virtual-machine:~$ cat>user
51      Sharan  sharan@345      sharan@gmail.com      1234567890
52      Nandhu  nandhu@678      nandhu@gmail.com      0987654321
53      Ajay    Ajay$69867      Ajay666@gmail.com     1236549870
54      Tharun  Tharun@342      Tharun@gmail.com      9874563210
55      Arjun   Arjun@9876      Arjun87@gmail.com     7890543219
```

```
hive> select * from user;
OK
51      Sharan  sharan@345      sharan@gmail.com      1234567890
52      Nandhu  nandhu@678      nandhu@gmail.com      0987654321
53      Ajay    Ajay$69867      Ajay666@gmail.com     1236549870
54      Tharun  Tharun@342      Tharun@gmail.com      9874563210
55      Arjun   Arjun@9876      Arjun87@gmail.com     7890543219
Time taken: 0.141 seconds, Fetched: 5 row(s)
```

Booking table

```
hduser@rahul-virtual-machine:~$ cat>booking
41      20      2hr40min      Confirmed      51      21
42      30      3hrs0min      Waiting##      51      22
43      20      2hr30min      Confirmed      52      21
44      25      2hr30min      waiting##      53      23
45      50      2hrs0min      waiting##      54      24
46      44      3hrs0min      confirmed      54      25
47      30      2hrs45min     confirmed      55      26
```

```
hive> select * from booking;
OK
41      20      2hr40min      Confirmed      51      21
42      30      3hrs0min      Waiting##      51      22
43      20      2hr30min      Confirmed      52      21
44      25      2hr30min      waiting##      53      23
45      50      2hrs0min      waiting##      54      24
46      44      3hrs0min      confirmed      54      25
47      30      2hrs45min     confirmed      55      26
Time taken: 0.024 seconds, Fetched: 7 row(s)
```

Cinema

```
hduser@rahul-virtual-machine:~$ cat>Cinema
61      Master  20      71
62      Vivegam 30      72
63      Avatar  20      73
64      Avenger 35      74
65      Doctor  40      75
```

```
hive> select * from cinema;
OK
61      Master  20      71
62      Vivegam 30      72
63      Avatar  20      73
64      Avenger 35      74
65      Doctor  40      75
```

Cinema hall table

```
hduser@rahul-virtual-machine:~$ cat>cinemahall
31      INOX    20      61
32      Vijaya  30      62
33      lakshmi 20      63
34      Mantri  25      64
35      Emperor 30      65
hduser@rahul-virtual-machine:~$ hive
```

```
hive> select * from cinemahall;
OK
31      INOX    20      61
32      Vijaya  30      62
33      lakshmi 20      63
34      Mantri  25      64
35      Emperor 30      65
Time taken: 0.019 seconds, Fetched: 5 row(s)
```

City table

```
hduser@rahul-virtual-machine:~$ cat>city
71      Kolar      Karnataka      123ft5
72      Malur      Karnataka      86jhkj
73      KGF        Karnataka      987hyt
74      Vkota      Karnataka      987kjh
75      Kolar      karnataka      123ft5
```

Cinema seat table

```
hduser@rahul-virtual-machine:~$ cat>cinemaseat
91      444      General 31
92      445      General 32
93      446      Classic 33
94      447      Balcony 34
95      448      Classic 35
```