

JAVA MINI PROJECT **VALUE ADDED ASSIGNMENT**

DEPT: CMPN

Group J25

Topic: Movie Ticket Booking System_ MARVEL-HQ

Group Members:

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VAA on Application Development

Introduction: The idea here is to develop effective application system to include concepts learnt in skill-based lab and ideate an integrated system with database connectivity. It is meant to act as a solution for maintaining the information records for any management/gamification/web based system

Assignment Highlights: -

1. Develop a Graphical User Interface
2. Design and Implement Integrated System with adequate functionality
3. Database connectivity

Challenge: -

1. Design of user-friendly GUI
2. Automating the system with the information via database connectivity

Technologies used:-

1. Java
2. SQL

External JAR(Java Archive Files) used:

1.) jcalendar

JCalendar is a Java date chooser bean for graphically picking a date.

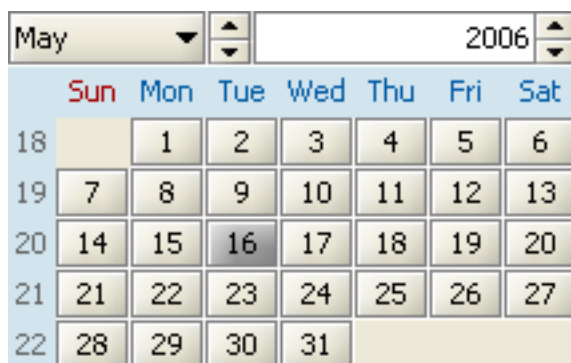
JCalendar is composed of several other Java beans, a JDayChooser, a JMonthChooser and a JYearChooser.

All these beans have a locale property, provide several icons (Color 16×16, Color 32×32, Mono 16×16 and Mono 32×32) and their own locale property editor. So they can easily be used in GUI builders.

Also part of the package is a JDateChooser, a bean composed of an IDateEditor (for direct date editing) and a button for opening a JCalendar for selecting the date.

JDateChooser allows you to pick a date. You could either edit the date directly or click the image to popup a JCalendar to choose the date.

JCalendar allows you to choose a year, a month and a day. Depending on the locale, the month names and the weekday names change. The foreground of “today” is painted red.



We have used **JDateChooser** in our project to make it easier for the user to select a date on which they wish to book a movie ticket.

We have also used a method supported by it called **setMinSelectableDate()** and set the minimum selectable date as the present date.

2.)itextpdf:

iText is a library for creating and manipulating PDF files in Java and .NET.

iText was written by Bruno Lowagie. The source code was initially distributed as open source under the Mozilla Public License or the GNU Library General Public License open-source licenses. However, as of version 5.0.0 (released Dec 7, 2009) it is distributed under the Affero General Public License version 3. A fork of the LGPL/MPL licensed version of iText is currently actively maintained as the OpenPDF library on GitHub. iText is also available through a proprietary license, distributed by iText Software NV.

iText provides support for most advanced PDF features such as PKI-based signatures, 40-bit and 128-bit encryption, color correction, Tagged PDF, PDF forms (AcroForms), PDF/X, color management via ICC profiles and barcodes, and is used by several products and services, including Eclipse BIRT, Jasper Reports, JBoss Seam, Windward Reports, and pdftk.

iText is a Java library originally created by Bruno Lowagie which allows to create PDF, read PDF and manipulate them.

iText has a hierarchical structure. The smallest text unit is a "Chunk" which is a String with a pre-defined font. A "Phrase" combines several Chunks and allows to define line spacing. "Paragraph" is a subclass of "Phrase" and allows to define more layout attributes, e.g. margins. The class "Anchor" is a subclass of "Paragraph" and serves as the basis for hyperlinks in the generated PDF.

OUTPUT:

MOVIE TICKET BOOKING SYSTEM - MARVEL HQ

Signup?

Username

Enter Username

Password

☐ Show Password

LOGIN

LOGIN PAGE:

MOVIE TICKET BOOKING SYSTEM - MARVEL HQ

SIGNUP

Name

Firstname Lastname

Email ID

Enter Valid E-mail ID

UserID

Enter unique UserID

Contact Number

eg : +91 1234567890

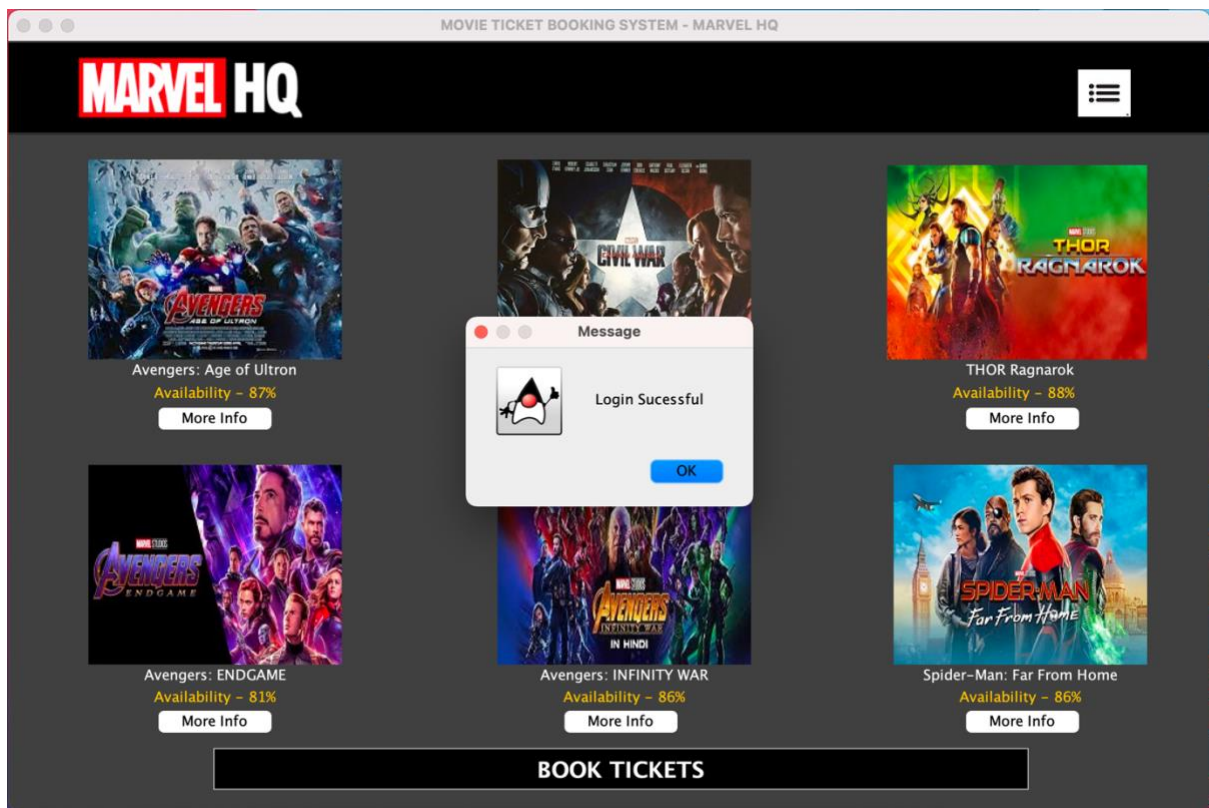
Password

☐ Show Password

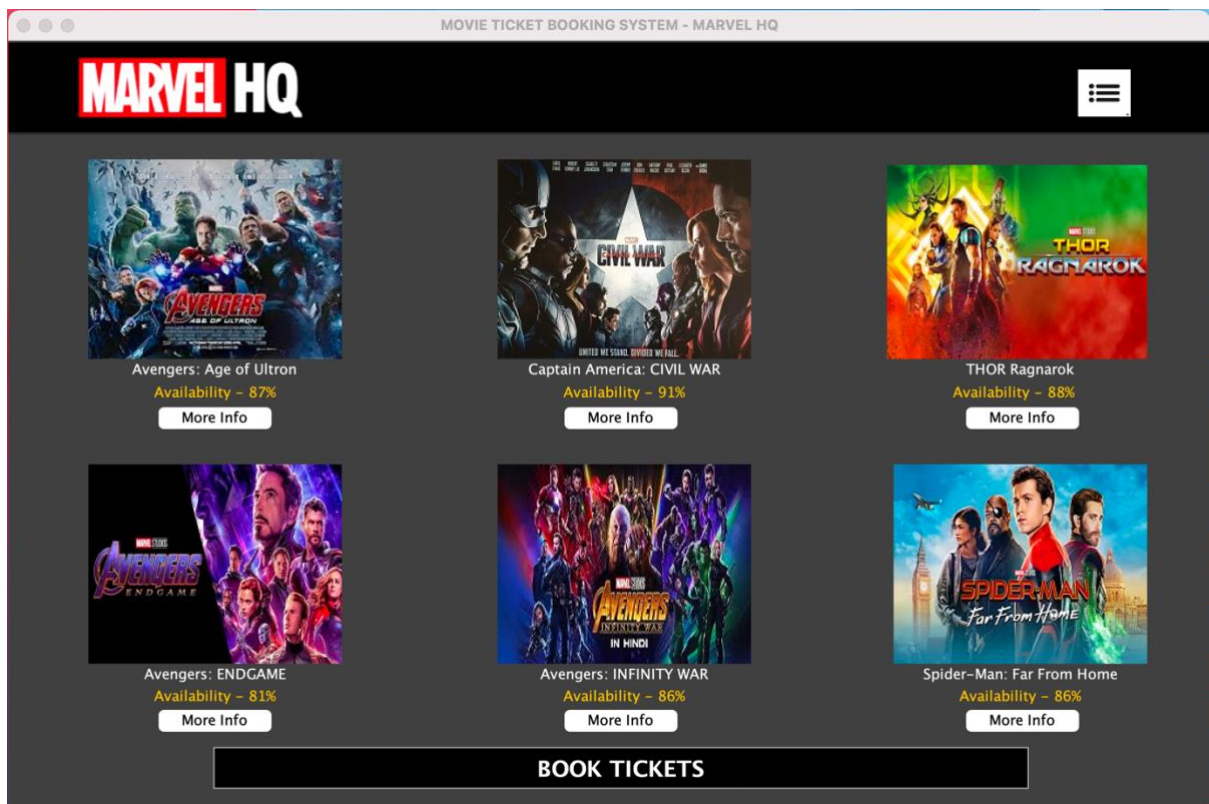
SIGN UP

[Go back to Login Page-->](#)

SIGN UP PAGE:



After Successful Login:




HOME PAGE:

INDIVIDUAL MOVIE PAGES CONTAINING MOVIE INFORMATION:

MOVIE TICKET BOOKING SYSTEM - MARVEL HQ

HOME PAGE

MARVEL HQ



Avengers: Age of Ultron

2h 23m • Action , Adventure , Fantasy • UA • 24 Apr, 2015

About the Movie

Marvel Studios presents 'Avengers: Age of Ultron', the epic follow-up to the biggest Super Hero movie of all time. When Tony Stark tries to jumpstart a dormant peacekeeping program, things go awry and Earth's Mightiest Heroes, including Iron Man, Captain America, Thor, The Incredible Hulk, Black Widow and Hawkeye, are put to the ultimate test as the fate of the planet hangs in the balance. As the villainous Ultron emerges, it is up to the Avengers to stop him from enacting his terrible plans, and soon uneasy alliances and unexpected action pave the way for an epic and unique global adventure.

Marvel's 'Avengers: Age of Ultron' stars Robert Downey Jr., who returns as Iron Man, along with Chris Evans as Captain America, Chris Hemsworth as Thor and Mark Ruffalo as The Hulk. Together with Scarlett Johansson as Black Widow and Jeremy Renner as Hawkeye, and with the additional support of Samuel L. Jackson as Nick Fury and Cobie Smulders as Agent Maria Hill, the team must reassemble to defeat James Spader as Ultron, a terrifying technological villain hell-bent on human extinction. Along the way, they confront two mysterious and powerful newcomers, Wanda Maximoff, played by Elizabeth Olsen, and Pietro Maximoff, played by Aaron Taylor-Johnson, and meet an old friend in a new form when Paul Bettany becomes Vision.


Written and directed by Joss Whedon and produced by Kevin Feige, Marvel's 'Avengers: Age of Ultron' is based on the ever-popular Marvel comic book series 'The Avengers', first published in 1963.

[BOOK TICKETS](#)

MOVIE TICKET BOOKING SYSTEM - MARVEL HQ

HOME PAGE

MARVEL HQ



Captain America: Civil War

2h 27m • Action , Sci-Fi , Thriller • UA • 6 May, 2016

About the Movie

Marvel's Captain America: Civil War finds Steve Rogers leading the newly formed team of Avengers in their continued efforts to safeguard humanity. But after another incident involving the Avengers results in collateral damage, political pressure mounts to install a system of accountability, headed by a governing body to oversee and direct the team.

The new status quo fractures the Avengers, resulting in two camps – one led by Steve Rogers and his desire for the Avengers to remain free to defend humanity without government interference, and the other following Tony Stark's surprising decision to support government oversight and accountability. Get ready to pick a side and join the nonstop action playing out on two fronts on Marvel's new release Captain America: Civil War. In Captain America: Civil War, disagreement over international oversight of the Avengers fractures the team into two opposing factions—one led by Steve Rogers and the other by Tony Stark (Downey).


The film was directed by Anthony and Joe Russo from a screenplay by the writing team of Christopher Markus and Stephen McFeely, and stars Chris Evans as Steve Rogers / Captain America alongside an ensemble cast including Robert Downey Jr., Scarlett Johansson, Sebastian Stan, Anthony Mackie, Don Cheadle, Jeremy Renner, Chadwick Boseman, Paul Bettany, Elizabeth Olsen, Paul Rudd, Emily VanCamp, Tom Holland, Frank Grillo, William Hurt, and Daniel Brühl.

[BOOK TICKETS](#)

MOVIE TICKET BOOKING SYSTEM - MARVEL HQ

HOME PAGE

MARVEL HQ



Thor Ragnarok

2h 10m • Action , Adventure , Fantasy • UA • 3 Nov, 2017

About the Movie

In Thor: Ragnarok, Thor must escape the alien planet Sakaar in time to save Asgard from Hela (Blanchett) and the impending Ragnarok. Upon finding himself in a gladiatorial match against the Hulk, his former ally, Thor must fight for survival and to save his people from the ruthless Hela from destroying Asgard.

Imprisoned on the planet Sakaar, Thor must race against time to return to Asgard and stop Ragnarok, the destruction of his world, at the hands of the powerful and ruthless villain Hela. It is the sequel to Thor (2011) and Thor: The Dark World (2013), and the 17th film in the Marvel Cinematic Universe (MCU).


The film was directed by Taika Waititi from a screenplay by Eric Pearson and the writing team of Craig Kyle and Christopher Yost, and stars Chris Hemsworth as Thor alongside Tom Hiddleston, Cate Blanchett, Idris Elba, Jeff Goldblum, Tessa Thompson, Karl Urban, Mark Ruffalo, and Anthony Hopkins.

BOOK TICKETS

MOVIE TICKET BOOKING SYSTEM - MARVEL HQ

HOME PAGE

MARVEL HQ



Avengers: Endgame

3h 2m • Action , Adventure , Fantasy • UA • 26 Apr, 2019

About the Movie

After the devastating events of Avengers: Infinity War (2018), the universe is in ruins. With the help of remaining allies, the Avengers assemble once more in order to reverse Thanos' actions and restore balance to the universe pave the way for an epic and unique global adventure.

The grave course of events set in motion by Thanos that wiped out half the universe and fractured the Avengers ranks compels the remaining Avengers to take one final stand in Marvel Studios' grand conclusion to twenty-two films, "Avengers: Endgame."The film serves as a conclusion to the story of the MCU up to that point, ending the story arcs for several main characters.

Directed by Anthony and Joe Russo and written by Christopher Markus and Stephen McFeely, the film features an ensemble cast including Robert Downey Jr., Chris Evans, Mark Ruffalo, Chris Hemsworth, Scarlett Johansson, Jeremy Renner, Don Cheadle, Paul Rudd, Brie Larson, Karen Gillan, Danai Gurira, Benedict Wong, Jon Favreau, Bradley Cooper, Gwyneth Paltrow, and Josh Brolin. In the film, the surviving members of the Avengers and their allies attempt to reverse the destruction caused by Thanos in Infinity War.

BOOK TICKETS

BOOK TICKETS

BOOK TICKETS

After Clicking on "BOOK TICKETS" button on home page or movie info pages:
(with menu in top right corner)

The screenshot shows the 'MOVIE TICKET BOOKING SYSTEM - MARVEL HQ' interface. At the top, there's a 'HOME PAGE' button and the 'MARVEL HQ' logo. A menu in the top right corner contains 'Update User Details', 'About us', and 'LOGOUT'. The main area features a large grey box labeled 'SEATS' with a 'Show Seats' button below it. To the right of the 'SEATS' box, there are several form fields: 'Price: Select per ticket', 'Region: Select a Region', 'Movie Name: Select a Movie', 'Number of Tickets: Select Number of Tickets', 'Date: [calendar icon]', 'Time: Select Time', and 'Seat Numbers: Select Seats'. At the bottom right, there is a 'Confirm Booking and Pay' button.

After Clicking on "About us" button in the menu:

The screenshot shows the 'About us' modal window. It features the 'MARVEL HQ' logo at the top. Below the logo, the text reads: 'MARVEL-HQ IS A LEADING CINEMA HOUSE ACROSS THE METRO CITIES IN INDIA. WE OFFER ALL THE BLOCKBUSTER MOVIES FROM THE MARVEL CINEMATIC UNIVERSE'. The modal also lists addresses for Mumbai and Delhi, contact information (+022 12345678 and help@marvelHQ.com), and a red 'X' button in the top right corner. The background shows the same booking interface as the previous screenshot, but it is dimmed.

After clicking on “Update User Details” in the menu:

A screenshot of a web application titled "MOVIE TICKET BOOKING SYSTEM - MARVEL HQ". The page has a dark theme. A modal window is open in the center, titled "Please Enter your username and password again to update details". It contains two input fields: "Username:" and "Password:". Below the password field is a checkbox labeled "Show Password". At the bottom of the modal is a "CONFIRM" button. In the top right corner of the modal is a red 'X' icon. The background shows a sidebar with a menu containing "Update User Details", "About us", and "LOGOUT".

After inputting correct username and password users can see their details and edit any detail except for their username:

A screenshot of the same web application. The modal window now displays the user's details. It includes the following fields: "User ID:" with the value "yash123", "Name:" with the value "Yash Khot", "Email ID:" with the value "yash.khot@vit.edu.in", "Contact No.:" with the value "8746352465", and "Password:" with the value "***". Below the password field is a checkbox labeled "Show Password". At the bottom of the modal are two buttons: "EDIT DETAILS" and "CONFIRM". The red 'X' icon remains in the top right corner. The background sidebar is the same as in the previous screenshot.

(Back to Book Tickets Page)

After Selecting all the given fields users can see the seats. The seats which are already booked in the database are disabled:

MOVIE TICKET BOOKING SYSTEM - MARVEL HQ

HOME PAGE

MARVEL HQ

Price: **Rs. 300** per ticket

Region:

Movie Name:

Number of Tickets:

Date:

Time:

Seat Numbers:

SCREEN
ALL EYES THIS WAY

Reset Seats Confirm Seats Reset ALL

Confirm Booking and Pay

After selecting the correct number of seats and clicking on the “Confirm Seats” button: (By clicking on the “Reset Seats” button users can reset the selected seats and choose again)(“Reset ALL” button resets all the selected fields)

MOVIE TICKET BOOKING SYSTEM - MARVEL HQ

HOME PAGE

MARVEL HQ

Price: **Rs. 300** per ticket

Region:

Movie Name:

Number of Tickets:

Date:

Time:

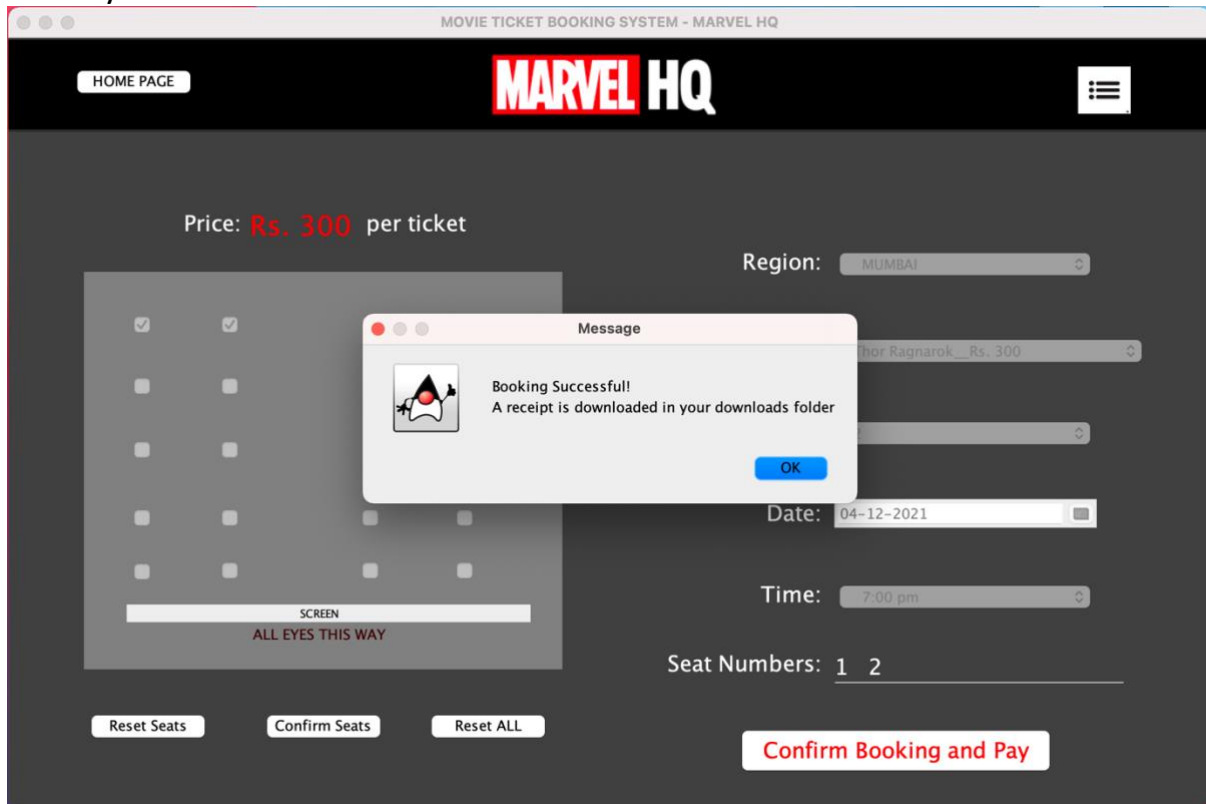
Seat Numbers:

SCREEN
ALL EYES THIS WAY

Reset Seats Confirm Seats Reset ALL

Confirm Booking and Pay

After clicking on the red button "Confirm Booking and Pay" and again confirming by typing their username, users can see the tickets downloaded in their system download folder:



The Following receipt is generated:

```
*****
MARVEL-HQ
*****
Date & Time : 03-12-2021 05:18:47 pm

Username : yash123
Name : Yash Khot
Email ID : yash.khot@vit.edu.in
Contact Number : 8746352465

Region : MUMBAI
Movie Name : Thor Ragnarok__Rs. 300
Date : 04-12-2021
Time : 7:00 pm
Ticket Number : 160431

Region : MUMBAI
Movie Name : Thor Ragnarok__Rs. 300
Date : 04-12-2021
Time : 7:00 pm
Ticket Number : 160432

*****
Thank You!!! See you Soon
Contact us at : +022 12345678
help@marvelHQ.com
*****
```


DATABASE:

Local instance 3306

AdministrationSchemas

signupmovie

Context HelpSnippets

1 • SELECT * FROM jmp.signup;

100%1:1

Result Grid

name	email	userid	contact	password
Jake Peralta	jacob.peralta@gmail.com	jake123	1233567856	jake123
Ken Adams	ken1@gmail.com	ken1	9619456783	ken11
Yash Khot	yash.khot@vit.edu.in	yash123	8746352465	123

signup 1

ApplyRevert

Object InfoSession

No object selected

Filter objects

jmp

Tables

movie

signup

Views

Stored Procedures

Functions

sys

100%1:1

Filter Rows

Search

Edit

Export/Import

Result Grid

Form Editor

Field Types

Query Stats

Execution Plan

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

217:17:24

SELECT * FROM jmp.movie LIMIT 0, 1000

93 row(s) returned

0.00083 sec / 0.000...

Query Completed

Local instance 3306

AdministrationSchemas

signupmovie

Context HelpSnippets

1 • SELECT * FROM jmp.movie;

100%1:1

Result Grid

Region	MovieName	Date	Time	SeatNo.	Ticket	Username
MUMBAI	Avengers: Infinity War_ Rs. 400	27-11-2021	10:00 am	3	142713	yash123
MUMBAI	Avengers: Infinity War_ Rs. 400	27-11-2021	10:00 am	4	142714	yash123
MUMBAI	Avengers: Infinity War_ Rs. 400	27-11-2021	10:00 am	5	142715	yash123
MUMBAI	Avengers: Infinity War_ Rs. 400	27-11-2021	10:00 am	6	142716	yash123
MUMBAI	Avengers: Infinity War_ Rs. 400	27-11-2021	7:00 pm	5	142735	yash123
MUMBAI	Avengers: Infinity War_ Rs. 400	27-11-2021	7:00 pm	6	142736	yash123
MUMBAI	Spider-Man: Far From Home_ Rs.350	27-11-2021	10:00 am	3	152713	jake123
MUMBAI	Spider-Man: Far From Home_ Rs.350	27-11-2021	10:00 am	4	152714	jake123
MUMBAI	Spider-Man: Far From Home_ Rs.350	27-11-2021	10:00 am	5	152715	jake123
MUMBAI	Spider-Man: Far From Home_ Rs.350	27-11-2021	10:00 am	6	152716	jake123
MUMBAI	Spider-Man: Far From Home_ Rs.350	27-11-2021	7:00 pm	3	152733	yash123
MUMBAI	Spider-Man: Far From Home_ Rs.350	27-11-2021	7:00 pm	4	152734	yash123
MUMBAI	Spider-Man: Far From Home_ Rs.350	27-11-2021	7:00 pm	5	152735	yash123
MUMBAI	Spider-Man: Far From Home_ Rs.350	27-11-2021	7:00 pm	6	152736	yash123
MUMBAI	Thor Ragnarok_ Rs. 300	27-11-2021	7:00 pm	1	162731	yash123
MUMBAI	Thor Ragnarok_ Rs. 300	27-11-2021	7:00 pm	10	1627310	yash123
MUMBAI	Thor Ragnarok_ Rs. 300	27-11-2021	7:00 pm	11	1627311	yash123
MUMBAI	Thor Ragnarok_ Rs. 300	27-11-2021	7:00 pm	12	1627312	yash123
MUMBAI	Thor Ragnarok_ Rs. 300	27-11-2021	7:00 pm	2	162732	yash123
MUMBAI	Thor Ragnarok_ Rs. 300	27-11-2021	7:00 pm	7	162737	yash123
MUMBAI	Thor Ragnarok_ Rs. 300	27-11-2021	7:00 pm	8	162738	yash123
MUMBAI	Thor Ragnarok_ Rs. 300	27-11-2021	7:00 pm	9	162739	yash123
DELHI	Avengers: Endgame_ Rs. 400	27-11-2021	10:00 am	3	232713	yash123
DELHI	Avengers: Endgame_ Rs. 400	27-11-2021	10:00 am	4	232714	yash123
DELHI	Avengers: Endgame_ Rs. 400	27-11-2021	10:00 am	5	232715	yash123
DELHI	Avengers: Endgame_ Rs. 400	27-11-2021	10:00 am	6	232716	yash123
DELHI	Avengers: Infinity War_ Rs. 400	27-11-2021	3:00 pm	1	242721	jake123
DELHI	Avengers: Infinity War_ Rs. 400	27-11-2021	3:00 pm	2	242722	jake123
DELHI	Avengers: Infinity War_ Rs. 400	27-11-2021	3:00 pm	7	242727	jake123
DELHI	Avengers: Infinity War_ Rs. 400	27-11-2021	3:00 pm	8	242728	jake123

movie 1

ApplyRevert

Object InfoSession

No object selected

Filter objects

jmp

Tables

movie

signup

Views

Stored Procedures

Functions

sys

100%1:1

Filter Rows

Search

Edit

Export/Import

Result Grid

Form Editor

Field Types

Query Stats

Execution Plan

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217:17:24

SELECT * FROM jmp.movie LIMIT 0, 1000

93 row(s) returned

0.00083 sec / 0.000...

Query Completed