

Course Code : CSE 404

Course Title : Software Engineering and ISD Laboratory

Project name : Bus ticket booking management system

Experiment no: 03

Experiment name: Logical design and Data Modeling of our Project Using Tools

**Submitted To**

**Dr. Mohammad Zahidur Rahman**

Professor

**Dr. Md. Humayun Kabir**

Professor

Department of Computer Science & Engineering Jahangirnagar University, Savar.

Group No : 02

Group members :

|  |  |  |
| --- | --- | --- |
| **Sl** | Class Roll | Name |
| 01 | 342 | Tama Shil |
| 02 | 370 | Prokash Maitra |
| 03 | 374 | Mubasher adnan jihad |
| 04 | 375 | Pritam Saha |



Course Code : CSE 404

Course Title : Software Engineering and ISD Laboratory

Project name : Bus ticket booking management system

Experiment no: 03

Experiment name: Logical design and Data Modeling of our Project Using Tools

**Submitted To**

**Dr. Mohammad Zahidur Rahman**

Professor

**Dr. Md. Humayun Kabir**

Professor

Department of Computer Science & Engineering Jahangirnagar University, Savar.

Group No : 02

Group members :

|  |  |  |
| --- | --- | --- |
| **Sl** | Class Roll | Name |
| 01 | 342 | Tama Shil |
| 02 | 370 | Prokash Maitra |
| 03 | 374 | Mubasher adnan jihad |
| 04 | 375 | Pritam Saha |

**Tama Shil**

**Id:342**

**Part: DB schemes**

**Objective:** The objective of the Logical Design and Data Modeling phase in the Bus Ticket Management System project is to define the structure, relationships, and behavior of the system's data components. This phase focuses on creating a conceptual and logical representation of the system's data requirements and designing an efficient and scalable data model to support the system's functionality. The use of appropriate tools and techniques is crucial to accomplish this objective effectively.

**Table-Admin**

Description: The table store admin information

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Fieldname | Datatype | Key | Size | Description |
| 01 | Admin\_id | int | Primary | 5 | Stores id |
| 02 | username | varchar | Unique key | 30 | Stores username |
| 03 | email | varchar | Not null | 30 | Stores email |
| 04 | password | varchar | Not null | 30 | Stores password |

**Table-Customer**

Description: The table store customer information

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Fieldname | Datatype | Key | Size | Description |
| 01 | Customer\_id | int | Primary | 5 | Stores id |
| 02 | username | varchar | Unique key | 30 | Stores username |
| 03 | email | varchar | Not null | 30 | Stores email |
| 04 | password | varchar | Not null | 30 | Stores password |
| 05 | Gender | char | Not null | 2 | Stores gender |
| 06 | Phone | varchar | Not null | 20 | Stores number |

**Table-Route detail**

Description: The table store route details information

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Fieldname | Datatype | Key | Size | Description |
| 01 | Route\_id | varchar | Primary key | 5 | Stores id |
| 02 | Destination | varchar | Not null | 30 | Stores destination |
| 03 | Pickup | varchar | Not null | 30 | Stores pickup |
| 04 | Distance | char | Not null | 30 | Stores distance |
| 05 | Rent | int | Not null | 5 | Store Rent |

**Pritam Saha**

**ID:375**

**Table-Ticket**

Description: The table store ticket information

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Fieldname | Datatype | Key | Size | Description |
| 01 | Trans\_type | varchar | Primary key | 15 | Stores Trans\_type |
| 02 | Departure type | varchar | Not null | 30 | Stores Departure type |
| 03 | Arrival time | varchar | Not null | 30 | Stores Arrival time |
| 04 | Departure station | varchar | Not null | 30 | Stores Departure station |
| 05 | Arrival station | varchar | Not null | 5 | Stores Arrival station |
| 06 | Via station | varchar | Not null | 30 | Stores Via station |
| 07 | Distance | varchar | Not null | 30 | Stores Distance |
| 08 | Rent | varchar | Foreign key | 30 | Stores rent |

**Table-Rent**

Description: The table store rent information

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Fieldname | Datatype | Key | Size | Description |
| 01 | Rent | int | Foreign key | 15 | Stores Rent |
| 02 | Rent\_id | int | Primary key | 30 | Stores id |
| 03 | Distance | varchar | Not null | 30 | Stores distance |
| 04 | Type | varchar | Foreign key | 30 | Stores type |

**Name: Mubasher Adnan Jihad**

**Roll :374**

**Table-Time-table**

Description: The table store route information of the ticket

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Fieldname | Datatype | Key | Size | Description |
| 01 | Rent\_id | int | Foreign key | 30 | Stores id |
| 02 | Departure time | varchar | Not null | 30 | Stores Departure time |
| 03 | Arrival time | varchar | Not null | 30 | Stores Arrival time |
| 04 | Departure station | varchar | Not null | 30 | Stores Departure station |
| 05 | Arrival station | varchar | Not null | 5 | Stores Arrival station |
| 06 | Via station | varchar | Not null | 30 | Stores Via station |
| 07 | Distance | varchar | Not null | 30 | Stores Distance |
| 08 | Rent | varchar | Foreign key | 30 | Stores rent detail |

**Table-Contact Us**

Description: The table store rent information

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Fieldname | Datatype | Key | Size | Description |
| 01 | Customer\_id | int | Foreign key | 5 | Stores id |
| 02 | username | varchar | Foreign key | 30 | Stores username of customer |
| 03 | email | varchar | Not null | 30 | Stores email |
| 04 | message | varchar | Foreign key | 30 | Stores message |

**Table-Password Update**

Description: The table stores information of changed password

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Fieldname | Datatype | Key | Size | Description |
| 01 | Id | int | Foreign key | 5 | Stores id |
| 02 | Old\_pass | varchar | Foreign key | 30 | Stores old password |
| 03 | New-pass | varchar | Not null | 30 | Stores new password |
| 04 | type | varchar | Not null | 30 | Stores type |

**Name**: Prokash Maitra

**Class Roll**: 370

**Exam Roll**: 191372

