**Feature Brief**

1. **Movie Rankings**

* Description

This feature is able to show the top four movie in this cinema.

Database schema:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FILM TABLE  Key | Field Name | Description | Data Type | Length | Refer To | Refer By |
| PK | **Film\_Id** | Film Id | INT | 8 |  |  |
|  | **Film\_Name** | Film Name | varchar | 50 |  |  |
|  | **Film\_Director** | Film Director | varchar | 50 |  |  |
|  | F\_Actor | Film Actor | varchar | 50 |  |  |
|  | F\_Intro | Film Introduction | varchar | 50 |  |  |
|  | F\_PIC | Film Picture | varchar | 50 |  |  |
|  | F\_LENGHT | Film length | varchar | 50 |  |  |
|  | Price\_Full | Film Price | float | 8 |  |  |
|  | Price\_Member | Membership Price | float | 8 |  |  |
|  | Available | BOOKING Available | char | 1 |  |  |
|  | LATEST | Update time | timestamp | 18 |  |  |

Flow chart



1. Special Gift.

If customer purchase three or more ticket. They will get a choice to decision their own T-shirt. For Free

Database Schema:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Customer TABLE  Key | Field Name | Description | Data Type | Length | Refer To | Refer By |
| PK | **Customer\_Id** | Customer Id | int | 2 |  |  |
|  | **username** | Username | Varchar | 50 |  |  |
|  | **password** | Password | Varchar | 50 |  |  |
|  | **Membership** | Membership | char | 1 |  |  |

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| --- | --- | --- | --- | --- | --- | --- |
| T-shirt TABLE  Key | Field Name | Description | Data Type | Length | Refer To | Refer By |
| PK | **Tshirt\_Id** | Tshirt Id | int | 2 |  | Design.Tshirt\_Id |
|  | **Tshirt\_color** | Tshirt\_color | Varchar | 50 |  |  |
|  | **Tshirt\_image** | Image path | Varchar | 50 |  |  |

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| --- | --- | --- | --- | --- | --- | --- |
| Logo TABLE  Key | Field Name | Description | Data Type | Length | Refer To | Refer By |
| PK | **Logo\_Id** | Tshirt Id | int | 2 |  | Design.Logo\_Id |
|  | **Logo\_image** | Image path | Varchar | 50 |  |  |

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| --- | --- | --- | --- | --- | --- | --- |
| Design TABLE  Key | Field Name | Description | Data Type | Length | Refer To | Refer By |
| FK | **Tshirt\_Id** | Tshirt Id | int | 2 | T-shirt.Tshirt\_Id |  |
| FK | **Logo\_Id** | Logo\_id | Varchar | 50 | Logo.Logo\_Id |  |
| PK | **Design\_Id** | Design id | Varchar | 50 |  | Order.Design\_Id |

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| --- | --- | --- | --- | --- | --- | --- |
| Order TABLE  Key | Field Name | Description | Data Type | Length | Refer To | Refer By |
| PK | **Order\_Id** | Order Id | int | 2 |  | Customer.Order\_Id |
| FK | **Design\_Id** | Logo\_id | Varchar | 50 | Design.Design\_Id |  |
|  | **Order\_Date** | Order Date | DATE |  |  |  |
|  | **Payment\_method** | Payment method | varchar | 50 |  |  |
| FK | **Customer\_id** | Customer id | int |  | Customer.customer\_id |  |

Flow chart



1. Booking Film.

Database Schema.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FILM TABLE  Key | Field Name | Description | Data Type | Length | Refer To | Refer By |
| PK | **Film\_ID** | Film Id | INT | 8 |  | RUNNING\_FILMS.Film\_ID |
|  | **F\_Date** | Film Data | Date |  |  |  |
|  | **F\_Name** | Film Name | varchar | 50 |  |  |
|  | **F\_Director** | Film Director | varchar | 50 |  |  |
|  | F\_Actor | Film Actor | varchar | 50 |  |  |
|  | F\_Intro | Film Introduction | varchar | 50 |  |  |
|  | F\_PIC | Film Picture | varchar | 50 |  |  |
|  | F\_LENGHT | Film length | varchar | 50 |  |  |
|  | Price\_Full | Film Price | float | 8 |  |  |
|  | Price\_Member | Membership Price | float | 8 |  |  |
|  | Available | BOOKING Available | char | 1 |  |  |
|  | LATEST | Update time | timestamp | 18 |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RUNNING\_FILMS TABLE  Key | Field Name | Description | Data Type | Length | Refer To | Refer By |
| PK | **Running\_films\_id** | Cinema ID | INT | 8 |  | Reservations.running\_films\_id |
| UNIQUE | **Room\_ID** | Room ID | INT | 8 |  |  |
| UNIQUE | **Run\_Time** | Film Run Time | DATE |  |  |  |
| FK | **Film\_ID** | Film ID | INT | 8 | Film.Film\_ID | RESERVATIONS.Film\_ID |
|  | **RFR** | Room Number | Varchar(unique) | 50 |  |  |
|  | RVST | Reservation Start Time | DATE | 50 |  |  |
|  | RVET | Reservation End Time | DATE |  |  |  |
|  | RUNATTIME | Running Time | DATE | 50 |  |  |
|  | Available | available | Char | 1 |  |  |
|  | LATEST | Update time | timestamp | 18 |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Cinema TABLE  Key | Field Name | Description | Data Type | Length | Refer To | Refer By |
| PK | **Cinema\_ID** | Cinema ID | INT | 8 |  | ROOM.Cinema\_ID |
|  | **Cinema\_Name** | Cinema Name | varchar | 50 |  |  |
|  | **Cinema\_Address** | Cinema Address | varchar | 50 |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ROOM TABLE  Key | Field Name | Description | Data Type | | Length | Refer To | | Refer By |
| UK | **Cinema\_ID** | Cinema ID | INT | | 8 |  | |  |
| PK | **Room\_ID** | Room ID | INT | | 8 |  | | SEATS.ROOM\_ID |
| UK | **Room\_Name** | Room Name | varchar | | 50 |  | |  |
|  | **Available** | Room Available | char | | 1 |  | |  |
|  | LATEST | Update time | timestamp | 18 | |  |  | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| SEATS TABLE  Key | Field Name | Description | Data Type | Length | Refer To | Refer By |
| PK | **Seat\_ID** | Cinema ID | INT | 8 |  |  |
| UK | **Room\_ID** | Room Id | INT | 8 | ROOM.ROOM\_ID |  |
| UK | **Seat\_ID** | Seats No | Varchar | 5 |  |  |
|  | **Available** | Available | Varchar | 5 |  |  |
|  | **Latest** | Update Time | Timestamp | 14 |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Customer TABLE  Key | Field Name | Description | Data Type | Length | Refer To | Refer By |
| PK | **Customer\_Id** | Customer Id | int | 2 |  |  |
|  | **username** | Username | Varchar | 50 |  |  |
|  | **password** | Password | Varchar | 50 |  |  |
|  | **Membership** | Membership | char | 1 |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Order TABLE  Key | Field Name | Description | Data Type | Length | Refer To | Refer By |
| PK | **Order\_Id** | Order Id | int | 2 |  | Customer.Order\_Id |
| FK | **Design\_Id** | Logo\_id | Varchar | 50 | Design.Design\_Id |  |
|  | **Order\_Date** | Order Date | DATE |  |  |  |
|  | **Payment\_method** | Payment method | varchar | 50 |  |  |
| FK | **Customer\_id** | Customer id | int |  | Customer.customer\_id |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RESERVATIONS TABLE  Key | Field Name | Description | Data Type | Length | Refer To | Refer By |
| PK | **Reservation\_id** | Cinema ID | INT | 8 |  |  |
| FK | **Running\_films\_id** | Film Id | INT | 8 | RUNNING\_FILMS.Running\_films\_id |  |
| Uk | **Seat\_number** | Seat ID | varchar | 50 |  |  |
|  | RVET | Reservation End Time | DATE |  |  |  |
|  | REALPRICE | Running Time | DATE | 50 |  |  |
|  | Order\_Id | Order id | INT | 8 |  | Order.order\_Id |
|  | Available | available | Char | 1 |  |  |
|  | LATEST | Update time | timestamp | 14 |  |  |

Flow chart:

