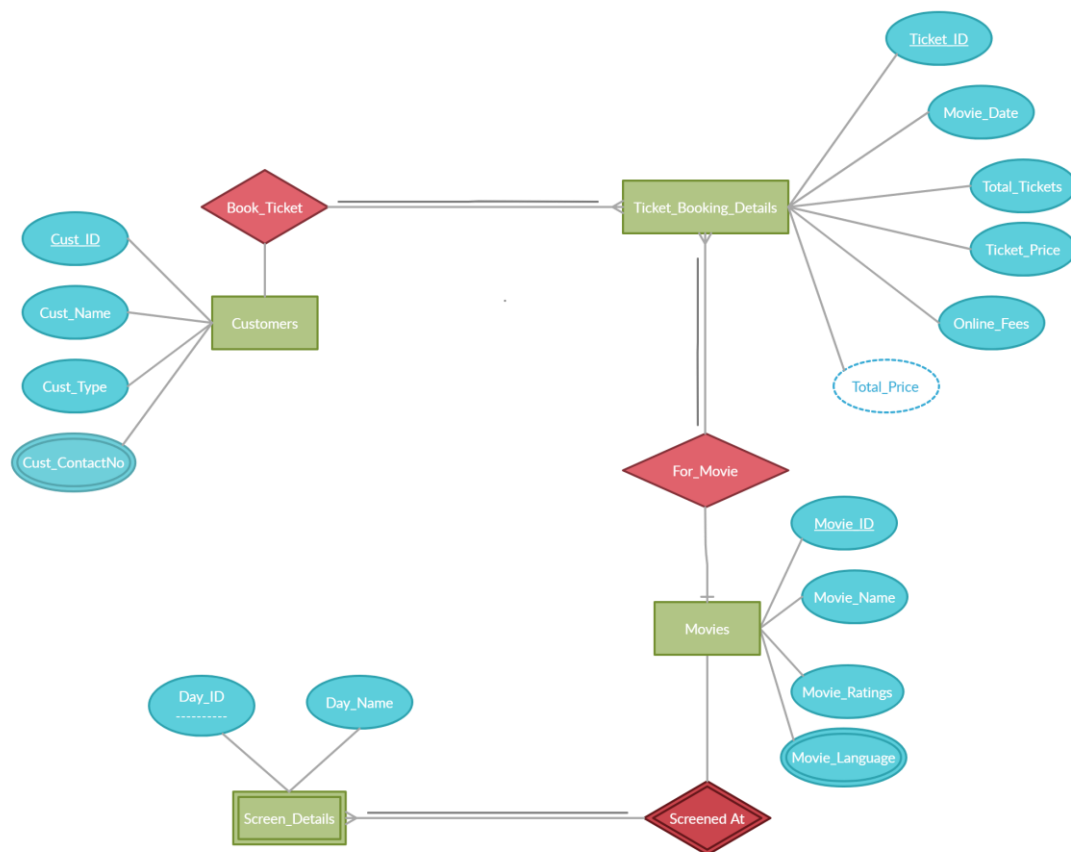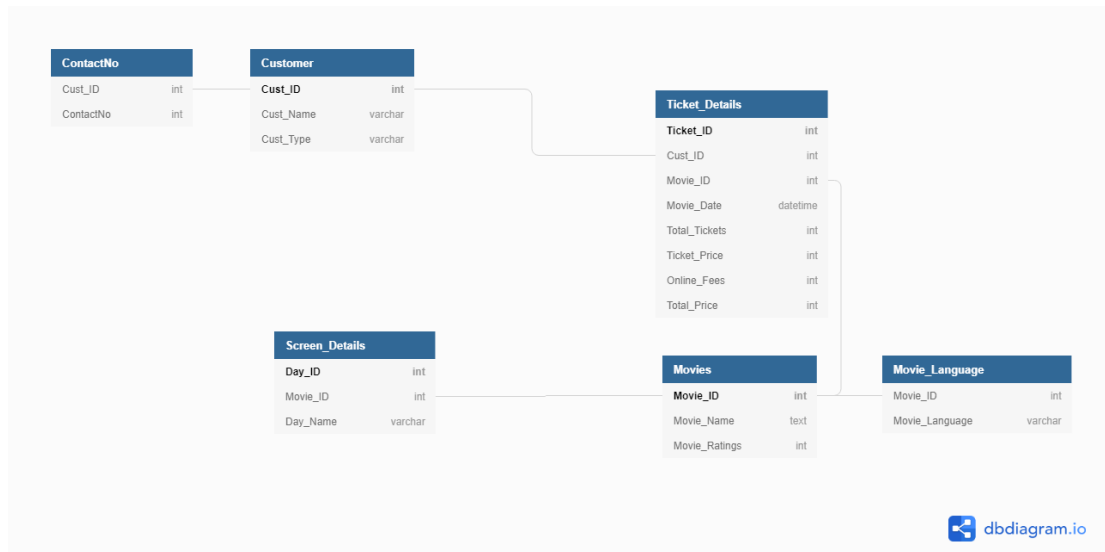Name: Rohan Murmu
Roll: 2019IMT-083

DBMS LAB WORK-3:

ER Diagram:

Relationship Schema:

Explanation:

The Given Diagram has:

1. There are four Entity sets where three are Regular Entity (Customers, Ticket_Booking_Details, Movies) and one is weak Entity (Screen_Details).
2. There are three Relationship sets:
   a) "Book_Ticket" which have Total Participation in Customers means there will be no Customer who will not book a ticket and Parital Participation in Ticket_Booking_Details means tickets will be entered in database only if they are being booked by customer.
   b) "For_Movie" which have Total Participation in Ticket_Booking Details because every ticket will be booked for some movie and Partial Participation in Movies because not every movie will have tickets booked.
   c) "Screened_At" which will have Total Participation in Sceen_Details because every day the screen will be used to screen a movie and Partial Participation because some movie can be registered but may not screened.

3. Customers is many-to-one relationship to Ticket_Booking_Details because many tickets can be booked by single customers but one ticket is for one customers.
4. Ticket_Booking_Details is many-to-one relationship to Movies because many tickets can be booked for a single movie.
5. Movies to Screen_Details is many to one a single movie can be screened at one screen at a particular time and many movies can be screened on a single screen.
6. Total Price is a dervived from Online_Fees, Ticket_Price and Total_Tickets therefore it is a derived attribute.