

CS 4400 Section B

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Project Phase III Group #40 Members:

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**Login:**

- SELECT \* FROM User WHERE USERNAME="" . \$username . ""
- SELECT \* FROM User WHERE USERNAME="" . \$username . "" AND isManager=1

**USER:****Registration:**

- SELECT \* FROM User WHERE USERNAME="" . \$username . ""
- SELECT \* FROM User WHERE EMAIL="" . \$email . ""
- INSERT INTO User (Username, Password, Email) VALUES (" . \$username . "" , "" . \$password . "" , "" . \$email . "")

**Add School Info:**

- UPDATE User SET isStudent = 1 WHERE Username="" . \$this->get('security.token\_storage')->getToken()->getUser() . ""

**View Train Schedule:**

- SELECT \* FROM Train\_Route WHERE Train\_Number="" . \$trainNumber . ""
- SELECT Train\_Route.Train\_Number, Arrival\_Time, Departure\_Time, Name FROM Train\_Route INNER JOIN Stop ON Train\_Route.Train\_Number=Stop.Train\_Number WHERE Train\_Route.Train\_Number="" . \$trainNumber . "" ORDER BY Arrival\_Time

**Make Reservation:**

- SELECT \* FROM Station
- Select Total.Train\_Number, Total.StartStop, Total.Departure\_Time, Total.EndStop, Total.OtherArrival, Total.Duration, Train\_Route.1st\_Class\_price as FirstClass, Train\_Route.2nd\_Class\_price as SecondClass From (SELECT Stop.Train\_Number, Stop.Name as StartStop, Stop.Departure\_Time, OtherStops.Name as EndStop, OtherStops.Arrival\_Time as OtherArrival, SEC\_TO\_TIME((SUM(TIME\_TO\_SEC(OtherStops.Arrival\_Time))) - (SUM(TIME\_TO\_SEC(Stop.Departure\_Time)))) as Duration FROM Stop Inner Join Stop as OtherStops On Stop.Train\_Number = OtherStops.Train\_Number Where (Stop.Name != OtherStops.Name) AND (Stop.Name Like "".\$startStation . "") AND (Stop.Departure\_Time is not null) AND (OtherStops.Name Like "" . \$endStation . "") AND (OtherStops.Arrival\_Time is not null) Group BY Stop.Train\_Number) As Total Join Train\_Route On Train\_Route.Train\_Number = Total.Train\_Number
- SELECT Max(ReservationID) + 1 as Max From Reservation
- SELECT Payment\_Info.Card\_Number as Card FROM `Payment\_Info` WHERE Payment\_Info.Username Like "".\$user."" Limit 1
- INSERT INTO `Reservation` (`ReservationID`, `Card\_Number`, `Username`, `IsCancelled`, `Price`, `ReserveDate`, `CancelDate`) VALUES (" . \$maxID . "" , NULL, "".\$user."" , '0' , '0' , NOW(), NULL)

- INSERT INTO `Reserves` (`ReservationID`, `Train\_Number`, `Class`, `Departure\_Date`, `Passenger\_Name`, `Number\_Bags`, `Departs\_From`, `Arrives\_At`) VALUES ('".\$reservationId."', ".\$trainNumber."', ".\$trainClass."', ".\$date."', ".\$passengerName."', ".\$baggage."', ".\$departStation."', ".\$arriveStation."')

#### **Payment Info:**

- SELECT \* FROM Payment\_Info WHERE Username=" ".\$user . "
- SELECT \* FROM Payment\_Info WHERE Card\_Number = " ".\$cardNumber . "
- INSERT INTO Payment\_Info (Card\_Number, Username, CVV, Exp\_Date, nameOnCard) VALUES ('" . \$cardNumber . "', " ".\$user . "', " ".\$cardCVV . "', " ".\$date->format('Y-m-d H:i:s') . "', " ".\$cardName . "')
- Select \* From (Select Reservation.Card\_Number, Max(Reserves.Departure\_Date) as LatestDeparture From Reservation Join Reserves On Reservation.ReservationID = Reserves.ReservationID Where Reservation.Card\_Number = " ".\$cardNumber . "' GROUP By Reservation.ReservationID) Cards Where Cards.LatestDeparture > NOW()
- DELETE FROM Payment\_Info WHERE Card\_Number=" ".\$cardNumber . " AND Username=" ".\$user . "

#### **Update Reservation:**

- SELECT \* FROM System\_Info WHERE Id='1'
- SELECT \* FROM Reservation WHERE ReservationID=" ".\$reservationID . "
- SELECT Reserves.Train\_Number, Reserves.Departs\_From as DepartsFrom, Reserves.Arrives\_At as ArrivesAt, Reserves.Class, Reserves.Number\_Bags as Bags, Reserves.Passenger\_Name as Passenger, Reserves.Departure\_Date FROM Reservation Join Reserves ON Reservation.ReservationID = Reserves.ReservationID Where Reservation.ReservationID = ".\$reservationId." Order By Reserves.Departure\_Date ASC Select Total.Departure\_Time, Total.OtherArrival, Total.Duration From (SELECT Stop.Train\_Number, Stop.Name as StartStop, Stop.Departure\_Time, OtherStops.Name as EndStop, OtherStops.Arrival\_Time as OtherArrival, SEC\_TO\_TIME((SUM(TIME\_TO\_SEC(OtherStops.Arrival\_Time))) - (SUM(TIME\_TO\_SEC(Stop.Departure\_Time)))) as Duration FROM Stop Inner Join Stop as OtherStops On Stop.Train\_Number = OtherStops.Train\_Number Where (Stop.Train\_Number = ".\$trainNumber.") AND (Stop.Name != OtherStops.Name) AND (Stop.Name Like ".\$startStation.") AND (Stop.Departure\_Time is not null) AND (OtherStops.Name Like ".\$endStation . "') AND (OtherStops.Arrival\_Time is not null) Group BY Stop.Train\_Number) As Total Join Train\_Route On Train\_Route.Train\_Number = Total.Train\_Number
- Select DISTINCT Train\_Route.".\$classText." As Cost From Stop JOIN Train\_Route ON Stop.Train\_Number = Train\_Route.Train\_Number Where Stop.Train\_Number = ".\$trainNumber->fetch\_assoc()['Cost']

- Select isStudent From User Where Username Like "".\$user.""")->fetch\_assoc()['isStudent']
- Select Card\_Number as Card From Payment\_Info Where Username Like "".\$user.""
- UPDATE `Reservation` SET `Price` = "".\$totalCost."" WHERE `Reservation`.`ReservationID` = "".\$reservationId
- UPDATE `Reserves` SET `Departure\_Date` = "".\$newDate."" WHERE `Reserves`.`ReservationID`="".\$reservationID."" AND `Reserves`.`Train\_Number`="".\$trainNumber.""
- DELETE FROM `Reserves` WHERE `Reserves`.`ReservationID` = "".\$reservationId."" AND `Reserves`.`Train\_Number` = "".\$trainNumber
- UPDATE `Reservation` SET `Card\_Number` = "".\$cardNumber."" WHERE `Reservation`.`ReservationID` = "".\$reservation

### Cancel Reservation:

- Select \* From (Select Min(Reserves.Departure\_Date) as EarliestDeparture From Reservation Join Reserves On Reservation.ReservationID = Reserves.ReservationID Where Reservation.ReservationID = "".\$reservationId."" AND Reservation.IsCancelled = 0 AND Reservation.Username = "".\$user."" ) T Where DATE\_SUB(T.EarliestDeparture, INTERVAL 1 DAY) >= NOW()
- SELECT Reserves.Train\_Number, Reserves.Departs\_From as DepartsFrom, Reserves.Arrives\_At as ArrivesAt, Reserves.Class, Reserves.Number\_Bags as Bags, Reserves.Passenger\_Name as Passenger, Reserves.Departure\_Date FROM Reservation Join Reserves ON Reservation.ReservationID = Reserves.ReservationID Where Reservation.ReservationID = "".\$reservationId."" Order By Reserves.Departure\_Date ASC
- Select Total.Departure\_Time, Total.OtherArrival, Total.Duration From (SELECT Stop.Train\_Number, Stop.Name as StartStop, Stop.Departure\_Time, OtherStops.Name as EndStop, OtherStops.Arrival\_Time as OtherArrival, SEC\_TO\_TIME((SUM(TIME\_TO\_SEC(OtherStops.Arrival\_Time))) - (SUM(TIME\_TO\_SEC(Stop.Departure\_Time)))) as Duration FROM Stop Inner Join Stop as OtherStops On Stop.Train\_Number Like OtherStops.Train\_Number Where (Stop.Train\_Number = "".\$trainNumber."" ) AND (Stop.Name != OtherStops.Name) AND (Stop.Name = "".\$startStation."" ) AND (Stop.Departure\_Time is not null) AND (OtherStops.Name = "".\$endStation."" ) AND (OtherStops.Arrival\_Time is not null) Group BY Stop.Train\_Number) As Total Join Train\_Route On Train\_Route.Train\_Number = Total.Train\_Number
- Select DISTINCT Train\_Route."\$classText." As Cost From Stop JOIN Train\_Route ON Stop.Train\_Number Like Train\_Route.Train\_Number Where Stop.Train\_Number Like "".\$trainNumber.""")->fetch\_assoc()['Cost']
- Select isStudent From User Where Username Like "".\$user.""")->fetch\_assoc()['isStudent']
- Select Date(NOW()) as Date")->fetch\_assoc()['Date']

- Select DATEDIFF('".\$date."', Date(now())) as Difference")->fetch\_assoc()['Difference']
- UPDATE `Reservation` SET `IsCancelled` = '1', `Price` = ".\$price.", `CancelDate` = ".\$cancelDate." WHERE `Reservation`.`ReservationID` = ".\$reservationId
- DELETE FROM `Reserves` WHERE `Reserves`.`ReservationID` = ".\$reservationId

#### **View Review:**

- SELECT \* FROM Train\_Route WHERE Train\_Number="" . \$trainNumber . ""
- SELECT Review.Rating, Review.Comment FROM Review WHERE Train\_Number = "" . \$trainNumber . ""

#### **Give Review:**

- SELECT \* FROM Train\_Route WHERE Train\_Number="" . \$trainNumber . ""
- SELECT Max(Review.ReviewID) as MaxID FROM Review
- INSERT INTO Review (ReviewID, Username, Train\_Number, Comment, Rating, ReviewDate) VALUES (" . \$new\_id . ", " . \$username . ", " . \$trainNumber . ", " . \$comment . ", " . \$rating . ", " . \$review\_date . ")

#### **MANAGER:**

##### **View Revenue Report:**

- Select Month(EarliestMonth) as Months, Sum(Price) From ( SELECT Reservation.ReservationID, Reservation.Username, Reservation.Price, Min(Reserves.Departure\_Date) as EarliestMonth FROM `Reservation` Join Reserves ON Reservation.ReservationID = Reserves.ReservationID GROUP BY Reservation.ReservationID )Prices GROUP By Month(EarliestMonth)

##### **Popular Route:**

- (Select MONTHNAME(STR\_TO\_DATE(Month(Reserves.Departure\_Date), '%m')) as Months, Reserves.Train\_Number, COUNT(DISTINCT Reserves.ReservationID, Reserves.ReservationID) as Counts, Month(Reserves.Departure\_Date) as Month From Reserves Join Reservation on Reservation.ReservationID = Reserves.ReservationID WHERE Reservation.IsCancelled = 0 and Month(Reserves.Departure\_Date) = Month(Now()) Group By Reserves.Train\_Number, Month Order By Month Asc, Counts desc Limit 3) UNION ALL (Select MONTHNAME(STR\_TO\_DATE(Month(Reserves.Departure\_Date), '%m')) as Months, Reserves.Train\_Number, COUNT(DISTINCT Reserves.ReservationID, Reserves.ReservationID) as Counts, Month(Reserves.Departure\_Date) as Month From Reserves Join Reservation on Reservation.ReservationID = Reserves.ReservationID WHERE Reservation.IsCancelled = 0 and Month(Reserves.Departure\_Date) = (Month(Now()) - 1) Group By Reserves.Train\_Number, Month Order By Month Asc, Counts desc Limit 3) UNION ALL (Select

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MONTHNAME(STR_TO_DATE(Month(Reserves.Departure_Date), '%m')) as  
Months, Reserves.Train_Number, COUNT(DISTINCT Reserves.ReservationID,  
Reserves.ReservationID) as Counts, Month(Reserves.Departure_Date) as  
Month From Reserves Join Reservation on Reservation.ReservationID =  
Reserves.ReservationID WHERE Reservation.IsCancelled = 0 and  
Month(Reserves.Departure_Date) = (Month(Now()) - 2) Group By  
Reserves.Train_Number, Month Order By Month Asc, Counts desc Limit 3)  
Order By Month Asc, Counts desc
```