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 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