

Mario Wijaya

Section C

mwijaya3@gatech.edu

[mwijaya3](#)

Ousmane Kaba

Section C

kaba@gatech.edu

okaba3

Masud Parvez

Section C

mparvez3@gatech.edu

mparvez3

Wenlu Fu

Section A

wfu32@gatech.edu

wfu32

Group Number # 23

#Registration

```
INSERT INTO Customer(C_Username, C_Password, Email, Is_student) VALUES (%s, %s, %s, %s)'''
```

#Log in

```
SELECT C_Username,C_Password FROM Customer
```

#Manager Log in

```
SELECT M_Username, M_Password FROM Manager
```

#Update student info

```
UPDATE Customer SET Is_student = %s WHERE C_Username= %s
```

#View Train Schedule

```
SELECT * FROM TrainStopStation WHERE TrainNumber = %s
```

#View all Train Number

```
SELECT DISTINCT TrainNumber FROM TrainStopStation
```

#get station info, name is the name of station

```
SELECT * FROM TrainStopStation WHERE Name = %s
```

#View Train Schedule

```
SELECT * FROM TrainStopStation WHERE Name = %s AND TrainNumber = %s
```

```
SELECT Is_student FROM Customer WHERE C_Username = %s'
```

#Make Reservation Page

```
SELECT RIGHT(CardNumber,4) FROM PaymentInfo WHERE C_Username = %s
```

```
SELECT ReservationID, RIGHT(CardNumber,4), CardNumber FROM Reservation  
WHERE C_Username = %s AND Is_cancelled = %s
```

```
SELECT DepartureDate FROM ReserveTrain WHERE ReservationID= %s
```

```
SELECT RIGHT(CardNumber,4), CardNumber FROM PaymentInfo WHERE  
C_Username = %s
```

```
DELETE FROM PaymentInfo WHERE CardNumber= %s
```

```
SELECT Is_student FROM Customer WHERE C_Username = %s
```

```
SELECT CardNumber FROM PaymentInfo
```

#add payment info

```
INSERT INTO  
PaymentInfo(`CardNumber`,`CVV`,`ExpDate`,`NameOnCard`,`C_Username`)  
VALUES(%s, %s, %s, %s, %s)
```

#Check if a user is a student

```
SELECT Is_student FROM Customer WHERE C_Username = %s
```

#Add reservation

```
INSERT INTO Reservation(ReservationID,CardNumber,C_Username,Is_cancelled,  
Total) VALUES(%s,%s,%s,%s,%s)
```

```
INSERT INTO ReserveTrain(ReservationID, TrainNumber, Class, DepartureDate,  
PassengerName, NumBags, DepartsFrom, ArrivesAt, Price, Is_cancelled)  
VALUES(%s,%s,%s,%s,%s,%s,%s,%s,%s,%s)
```

#Get user's reservation

```
SELECT ReservationID FROM Reservation WHERE C_Username = %s
```

#Join two tables to get the complete info of a reservation

```
SELECT ReserveTrain.TrainNumber, ReserveTrain.DepartureDate,  
ReserveTrain.DepartsFrom, ReserveTrain.ArrivesAt, ReserveTrain.Class,  
ReserveTrain.NumBags, ReserveTrain.PassengerName  
  
FROM ReserveTrain  
  
INNER JOIN Reservation  
  
ON Reservation.ReservationID = ReserveTrain.ReservationID  
  
WHERE Reservation.ReservationID = %s
```

#Get Price of TrainRoute

```
SELECT FirstClassPrice, SecondClassPrice  
  
FROM TrainRoute  
  
WHERE TrainNumber = %s
```

#View Train Schedule

```
SELECT ArrivalTime, DepartureTime  
  
FROM TrainStopStation  
  
WHERE TrainNumber = %s AND Name = %s
```

#Update Reservation

UPDATE ReserveTrain SET DepartureDate=%s

WHERE ReservationID=%s AND TrainNumber=%s AND DepartureDate=%s AND
Class=%s AND PassengerName=%s AND DepartsFrom=%s AND ArrivesAt=%s

#Get Reservation info

SELECT * FROM ReserveTrain WHERE ReservationID=%s

#Check price

SELECT FirstClassPrice FROM TrainRoute WHERE TrainNumber=%s

#Check price

SELECT SecondClassPrice FROM TrainRoute WHERE TrainNumber=%s

#Check Train Departure Time

SELECT DepartureTime FROM TrainStopStation WHERE TrainNumber=%s AND
Name=%s

#Get Reservation Price

SELECT Total FROM Reservation WHERE ReservationID=%s

#Delete Reservation

DELETE FROM ReserveTrain WHERE ReservationID=%s

#Update Reservation

```
UPDATE Reservation SET Is_cancelled=%s WHERE ReservationID=%s
```

#Read Review

```
SELECT Rating, Comment FROM Review WHERE TrainNumber = %s
```

#GIVE REVIEW

```
INSERT INTO Review(C_Username, TrainNumber, Rating, Comment) VALUES (%s,  
%s, %s, %s)
```

#CREATE VIEW REVENUETABLE

```
CREATE VIEW revenuetable AS  
SELECT EXTRACT( MONTH FROM DepartureDate ) AS MONTH, Price FROM ReserveTrain  
WHERE Is_cancelled=0
```

#TOTAL REVENUE TABLE

```
SELECT *
```

```
FROM (
```

```
SELECT MONTH , SUM( Price ) AS TotalRevenue
```

```
FROM revenuetable
```

```
WHERE MONTH = EXTRACT(
```

```
MONTH FROM CURDATE( ) ) -3
```

```
GROUP BY MONTH
```

```
)DummyName1
```

```
UNION
```

```
SELECT *
```

```
FROM (  
  
SELECT MONTH , SUM( Price ) AS TotalRevenue  
  
FROM revenuetable  
  
WHERE MONTH = EXTRACT(  
MONTH FROM CURDATE( ) ) -2  
  
GROUP BY MONTH  
  
)DummyName2  
  
UNION  
  
SELECT *  
  
FROM (
```

```
  
SELECT MONTH , SUM( Price ) AS TotalRevenue  
  
FROM revenuetable  
  
WHERE MONTH = EXTRACT(  
MONTH FROM CURDATE( ) ) -1  
  
GROUP BY MONTH  
  
)DummyName3
```

#Popular Route Table

```
SELECT *  
  
FROM (  
  
SELECT EXTRACT(  
MONTH FROM DepartureDate ) AS
```

```

MONTH , TrainNumber, COUNT( ReservationID ) AS NumRes

FROM ReserveTrain

WHERE EXTRACT(

MONTH FROM DepartureDate ) = EXTRACT( MONTH FROM CURDATE() )-3

GROUP BY MONTH , TrainNumber

ORDER BY NumRes DESC

LIMIT 3

)DUMMY_ALIAS1

UNION

SELECT *

FROM (

SELECT EXTRACT(

MONTH FROM DepartureDate ) AS

MONTH , TrainNumber, COUNT( ReservationID ) AS NumRes

FROM ReserveTrain

WHERE EXTRACT(

MONTH FROM DepartureDate ) = EXTRACT( MONTH FROM CURDATE() )-2


GROUP BY MONTH , TrainNumber

ORDER BY NumRes DESC

LIMIT 3

)DUMMY_ALIAS2

UNION

SELECT *

FROM (

```



```
SELECT EXTRACT(  
MONTH FROM DepartureDate ) AS  
MONTH , TrainNumber, COUNT( ReservationID ) AS NumRes  
FROM ReserveTrain  
WHERE EXTRACT(  
MONTH FROM DepartureDate ) = EXTRACT( MONTH FROM CURDATE() ) - 1  
  
GROUP BY MONTH , TrainNumber  
ORDER BY NumRes DESC  
LIMIT 3  
) DUMMY_ALIAS3
```