

School of Electronics Engineering (SENSE)

BCSE302P – DATABASE SYSTEMS

Submitted By
21BLC1411 Utkarsh Vyas
21BLC1377 Priyanshu Pandey

Submitted To Dr. Sherley A

Code Snippets:

```
NUMBER TIMID Taxi (Taxi_id, Registration no, Model, Manufactured year, Taxi_type, Status, Owner_id)
VALUES

(1, 'ABC123', 'Toyota Corolla', 2018, 'Economy', 'Available', 1),
(2, 'Dif456', 'Honda Civic', 2019, 'Standard', 'Available', 2),
(3, 'Gil780', 'Cheerolet Saburban', 2020, SLV', 'Unavailable', 3),
(4, 'Dic121', 'Dik 5 Series', 2017, 'Premium', 'Available', 4),
(5, 'MoDAS', 'Chrysler Pacifica', 2021, 'Minivan', 'Available', 5),
(6, 'PQ6678', 'Ford Pastang', 2016, 'Sports', 'Unavailable', 6),
(7, 'SIN90', 'Missam Altima', 2022, 'Standard', 'Available', 7),
(8, 'WAC23', 'Tosla Yodel S', 2020, 'Premium', 'Unavailable', 8),
(9, 'YZASG', 'Toyota Sienna', 2019, 'Minivan', 'Available', 9),
(10, 'BC0890', 'Jeep Wrangler', 2021, 'SLV', 'Available', 9);

BISERT IMTO Owner (Owner_id, SSM, Name, Company_id)
VALUES
(1, '123-45-67891', 'John Smith', 1),
(2, '224-56-7890', 'Jane Johnson', 1),
(3) '345-67-8901', 'Bob Williams', 2),
(4, '456-78-9012', 'Mary Lee', 2),
(5, '678-90-122-34', 'Karen Garcia', 3),
(7, '789-01-2243', 'Navid Brown', 2),
(6, '678-90-122-345', 'Nike Davis', 3),
(8, '880-12-3456', 'Sarah Wilson', 4),
(9, '901-23-4567', 'Janny Martimer', 5);

BISERT IMTO Company (Company id, Tcs_id, Tsc_name)
VALUES
(1, 'TCS001', 'Taxi Service Company 1'),
(2, 'TCS002', 'Taxi Service Company 2'),
(3, 'TCS003', 'Taxi Service Company 3'),
(4, 'TCS007', 'Taxi Service Company 5'),
(6, 'TCS007', 'Taxi Service Company 6'),
(7, 'TCS007', 'Taxi Service Company 6'),
(7, 'TCS007', 'Taxi Service Company 6'),
```

```
ISERT INTO Logic (User id, Logic id, Password, Credit card no, Balance)
        (1, 'johnjexample.com', 'passwordt', '1234567813345678', 100.00),
(2, 'jame@example.com', 'password2', '2345678923456780', 700.00),
(3, 'boh@example.com', 'password3', '3656789334567890', 300.00),
(4, 'alice@example.com', 'password4', '456789843567890', 400.00),
(5, 'david@example.com', 'password4', '45678984356789012, 500.00),
(6, 'sara@example.com', 'password6', '6780412367891234', 600.00),
(7, 'san@example.com', 'password6', '789042367891234', 700.00),
(8, 'emily@example.com', 'password6', '8001234580812345', 600.00),
(9, 'matt@example.com', 'password6', '801234569812345', 900.00),
(10, 'lisa@example.com', 'password6', '124567812345678', 2000.00);
          SHIET mane, gender FRAM Driver WHENE rating >= 3;
SHIET Bill_no, User_id, Amount FRAM Bill WHENE Amount > 50.00;
          c.Tsc name A5 Company Name,
         COUNT(t.Taxi id) Ms Total Trips,
SUM(tr.Amount) As Total Amount,
SUM(tr.Amount * 0.0) As Driver Fee,
SUM(tr.Amount * 0.2) As Company Fee
         Company c
          SOUN Owner o DN c. Company 1d - o. Company 1d
          DOIN Taxi t ON o.Owner_id = t.Owner_id
DOIN Trip tr ON t.Taxi_id = tr.Taxi_id
 SUM(tr.Amount * 0.8) AS Driver_Fee,
SUM(tr.Amount * 0.2) AS Company_Fee
 Company c
 JOIN Owner o CN c.Company_id - o.Company_id
 JOIN Taxi t CN o.Owner id = t.Owner id
JOIN Trip tr CN t.Taxi_id = tr.Taxi_id
HOUR BY
 c.Tsc_name;
 u.First_name || ' ' || u.Last_name ** User_name,
 u.Contact_no AS Contact_number,
 COUNT(t.Trip_id) 45 Total_trips
 User u
 TOTAL Trip t ON u.User_id = t.User_id
     retrieves the total number of trips taken by each taxi, along with its registration number and model:
 t.Registration_no 👫 Taxi_registration,
 t.Model AS Taxi_model,
 COUNT(tr.Trip_id) #5 Total_trips
 TOTH Teip to ON t. Taxi id - tr. Taxi id
 - total amount spent on each trip by custome
 U.User Id.
 U.First_name,
 U.Last_name,
 SUM(T.Amount) A5 Total_Amount_Spent
 User U
 INNER JOIN Trip T ON U.User_id = T.User_id
 U.User id,
 U.First name,
 U.Last name
MOER BY
 SUM(T.Amount) DESC
```

```
CREATE TABLE User (
 User_id INT PRIMARY KEY,
 First_name VARCHAR(50),
 Last_name VARCHAR(50),
 Address VARCHAR(100),
 Age INT,
 Contact_no VARCHAR(20),
 Email VARCHAR(100)
);
CREATE TABLE Taxi (
 Taxi_id INT PRIMARY KEY,
 Registration_no VARCHAR(20),
 Model VARCHAR(50),
 Manufactured_year INT,
 Taxi_type VARCHAR(20),
Status VARCHAR(20),
 Owner_id INT
);
CREATE TABLE Owner (
 Owner_id INT PRIMARY KEY,
 SSN VARCHAR(20),
 Name VARCHAR(50),
Company_id INT
);
CREATE TABLE Company (
 Company_id INT PRIMARY KEY,
 Tcs_id VARCHAR(20),
 Tsc_name VARCHAR(50)
```

```
);
CREATE TABLE Driver (
 Driver_id INT PRIMARY KEY,
 Name VARCHAR(50),
 Gender VARCHAR(10),
 Contact_no VARCHAR(20),
 Rating INT,
Age INT
);
CREATE TABLE Trip (
Trip_id INT PRIMARY KEY,
 User_id INT,
Taxi_id INT,
Start_time DATETIME,
 End_time DATETIME,
Amount DECIMAL(10,2),
 Promotional_code VARCHAR(20),
 Feedback VARCHAR(200),
 Driver_id INT
);
CREATE TABLE Bill (
 Bill_no INT PRIMARY KEY,
 User_id INT,
 Driver_id INT,
Amount DECIMAL(10,2),
 Date DATETIME
);
```

```
User_id INT PRIMARY KEY,
 Login_id VARCHAR(50),
 Password VARCHAR(50),
 Credit_card_no VARCHAR(16),
 Balance DECIMAL(10,2)
);
INSERT INTO User (User_id, First_name, Last_name, Address, Age, Contact_no, Email)
VALUES
 (1, 'John', 'Doe', '123 Main St', 30, '555-555-5555', 'johndoe@email.com'),
 (2, 'Jane', 'Smith', '456 Elm St', 25, '555-555-1234', 'janesmith@email.com'),
 (3, 'Bob', 'Johnson', '789 Oak St', 40, '555-555-6789', 'bobjohnson@email.com'),
 (4, 'Mary', 'Williams', '321 Maple St', 35, '555-555-4321', 'marywilliams@email.com'),
 (5, 'David', 'Lee', '654 Pine St', 28, '555-555-9876', 'davidlee@email.com'),
 (6, 'Karen', 'Taylor', '987 Oak St', 50, '555-555-1111', 'karentaylor@email.com'),
 (7, 'Mike', 'Brown', '456 Pine St', 45, '555-555-2222', 'mikebrown@email.com'),
 (8, 'Sarah', 'Davis', '789 Maple St', 30, '555-555-3333', 'sarahdavis@email.com'),
 (9, 'Chris', 'Wilson', '123 Elm St', 35, '555-555-4444', 'chriswilson@email.com'),
 (10, 'Jenny', 'Garcia', '321 Oak St', 25, '555-555-5555', 'jennygarcia@email.com');
INSERT INTO Taxi (Taxi_id, Registration_no, Model, Manufactured_year, Taxi_type, Status, Owner_id)
VALUES
 (1, 'ABC123', 'Toyota Corolla', 2018, 'Economy', 'Available', 1),
 (2, 'DEF456', 'Honda Civic', 2019, 'Standard', 'Available', 2),
 (3, 'GHI789', 'Chevrolet Suburban', 2020, 'SUV', 'Unavailable', 3),
 (4, 'JKL012', 'BMW 5 Series', 2017, 'Premium', 'Available', 4),
 (5, 'MNO345', 'Chrysler Pacifica', 2021, 'Minivan', 'Available', 5),
 (6, 'PQR678', 'Ford Mustang', 2016, 'Sports', 'Unavailable', 6),
 (7, 'STU901', 'Nissan Altima', 2022, 'Standard', 'Available', 7),
 (8, 'VWX234', 'Tesla Model S', 2020, 'Premium', 'Unavailable', 8),
 (9, 'YZA567', 'Toyota Sienna', 2019, 'Minivan', 'Available', 9),
```

CREATE TABLE Login (

```
(10, 'BCD890', 'Jeep Wrangler', 2021, 'SUV', 'Available', 10);
INSERT INTO Owner (Owner_id, SSN, Name, Company_id)
VALUES
(1, '123-45-6789', 'John Smith', 1),
 (2, '234-56-7890', 'Jane Johnson', 1),
 (3, '345-67-8901', 'Bob Williams', 2),
 (4, '456-78-9012', 'Mary Lee', 2),
 (5, '567-89-0123', 'David Brown', 2),
 (6, '678-90-1234', 'Karen Garcia', 3),
 (7, '789-01-2345', 'Mike Davis', 3),
 (8, '890-12-3456', 'Sarah Wilson', 4),
 (9, '901-23-4567', 'Chris Taylor', 4),
 (10, '012-34-5678', 'Jenny Martinez', 5);
INSERT INTO Company (Company_id, Tcs_id, Tsc_name)
VALUES
(1, 'TCS001', 'Taxi Service Company 1'),
 (2, 'TCS002', 'Taxi Service Company 2'),
 (3, 'TCS003', 'Taxi Service Company 3'),
 (4, 'TCS004', 'Taxi Service Company 4'),
 (5, 'TCS005', 'Taxi Service Company 5'),
 (6, 'TCS006', 'Taxi Service Company 6'),
 (7, 'TCS007', 'Taxi Service Company 7'),
 (8, 'TCS008', 'Taxi Service Company 8'),
 (9, 'TCS009', 'Taxi Service Company 9'),
 (10, 'TCS010', 'Taxi Service Company 10');
INSERT INTO Driver (Driver_id, Name, Gender, Contact_no, Rating, Age)
VALUES
 (1, 'John Doe', 'M', '555-555-555', 4, 30),
```

```
(2, 'Jane Smith', 'F', '555-555-1234', 5, 25),
(3, 'Bob Johnson', 'M', '555-555-6789', 3, 40),
(4, 'Mary Williams', 'F', '555-555-4321', 4, 35),
(5, 'David Lee', 'M', '555-555-9876', 5, 28),
(6, 'Karen Taylor', 'F', '555-555-1111', 4, 50),
(7, 'Mike Brown', 'M', '555-555-2222', 3, 45),
(8, 'Sarah Davis', 'F', '555-555-3333', 4, 30),
(9, 'Chris Wilson', 'M', '555-555-4444', 3, 35),
(10, 'Jenny Garcia', 'F', '555-555-5555', 5, 25);

-- This code inserts a new trip into the Trip table
INSERT INTO Trip (Trip_id, User_id, Taxi_id, Start_time, End_time, Amount, Promotional_code, Feedback, Driver_id)
```

(1, 1, 1, '2023-07-16 12:00:00', '2023-07-16 12:30:00', 25.50, 'SUMMER2023', 'Great ride!', 1),

(3, 3, 3, '2023-07-16 14:00:00', '2023-07-16 14:30:00', 40.25, ", ", 3),

(5, 5, 5, '2023-07-16 16:00:00', '2023-07-16 16:30:00', 20.00, ", ", 5),

(6, 6, 6, '2023-07-16 17:00:00', '2023-07-16 17:30:00', 50.00, ", ", 6),

(8, 8, 8, '2023-07-16 19:00:00', '2023-07-16 19:30:00', 75.25, ", ", 8),

(9, 9, 9, '2023-07-16 20:00:00', '2023-07-16 20:30:00', 22.50, ", ", 9),

INSERT INTO Bill (Bill_no, User_id, Driver_id, Amount, Date)

(1, 1, 1, 25.50, '2023-07-16 12:30:00'),

(2, 2, 2, 30.00, '2023-07-16 13:30:00'),

(10, 10, 10, '2023-07-16 21:00:00', '2023-07-16 21:30:00', 60.00, ", ", 10);

(2, 2, 2, '2023-07-16 13:00:00', '2023-07-16 13:30:00', 30.00, 'JULY2023', 'Driver was friendly', 2),

(4, 4, 4, '2023-07-16 15:00:00', '2023-07-16 15:30:00', 55.75, 'LOYALTY2023', 'Driver was on time',

(7, 7, 7, '2023-07-16 18:00:00', '2023-07-16 18:30:00', 35.50, 'DISCOUNT2023', 'Driver was

VALUES

4),

professional', 7),

VALUES

```
(3, 3, 3, 40.25, '2023-07-16 14:30:00'),
 (4, 4, 4, 55.75, '2023-07-16 15:30:00'),
(5, 5, 5, 20.00, '2023-07-16 16:30:00'),
 (6, 6, 6, 50.00, '2023-07-16 17:30:00'),
(7, 7, 7, 35.50, '2023-07-16 18:30:00'),
(8, 8, 8, 75.25, '2023-07-16 19:30:00'),
(9, 9, 9, 22.50, '2023-07-16 20:30:00'),
(10, 10, 10, 60.00, '2023-07-16 21:30:00');
INSERT INTO Login (User_id, Login_id, Password, Credit_card_no, Balance)
VALUES
(1, 'john@example.com', 'password1', '1234567812345678', 100.00),
(2, 'jane@example.com', 'password2', '2345678923456789', 200.00),
(3, 'bob@example.com', 'password3', '3456789034567890', 300.00),
(4, 'alice@example.com', 'password4', '4567890145678901', 400.00),
(5, 'david@example.com', 'password5', '5678901256789012', 500.00),
 (6, 'sarah@example.com', 'password6', '6789012367890123', 600.00),
(7, 'sam@example.com', 'password7', '7890123478901234', 700.00),
 (8, 'emily@example.com', 'password8', '8901234589012345', 800.00),
 (9, 'matt@example.com', 'password9', '9012345690123456', 900.00),
 (10, 'lisa@example.com', 'password10', '1234567812345678', 1000.00);
SELECT * FROM User;
SELECT name, gender FROM Driver WHERE rating >= 3;
 SELECT Bill_no, User_id, Amount FROM Bill WHERE Amount > 50.00;
-- this fun calculates the total amount earned by the company and the driver.
 SELECT
c.Tsc_name AS Company_Name,
COUNT(t.Taxi_id) AS Total_Trips,
 SUM(tr.Amount) AS Total_Amount,
```

```
SUM(tr.Amount * 0.8) AS Driver_Fee,
SUM(tr.Amount * 0.2) AS Company_Fee
FROM
Company c
JOIN Owner o ON c.Company_id = o.Company_id
JOIN Taxi t ON o.Owner_id = t.Owner_id
JOIN Trip tr ON t.Taxi_id = tr.Taxi_id
GROUP BY
c.Tsc_name;
-- to retrieve the total number of trips taken by each user, along with their name and contact
number
SELECT
u.First_name | | ' ' | | u.Last_name AS User_name,
u.Contact_no AS Contact_number,
COUNT(t.Trip_id) AS Total_trips
FROM
User u
JOIN Trip t ON u.User_id = t.User_id
GROUP BY
 u.User_id;
-- retrieves the total number of trips taken by each taxi, along with its registration number and
model:
SELECT
t.Registration_no AS Taxi_registration,
t.Model AS Taxi_model,
COUNT(tr.Trip_id) AS Total_trips
FROM
Taxi t
JOIN Trip tr ON t.Taxi_id = tr.Taxi_id
GROUP BY
```

```
t.Taxi_id;
-- Generate bill for a specific trip
INSERT INTO Bill (User_id, Driver_id, Amount, Date)
SELECT
t.User_id,
t.Driver_id,
t.Amount * 0.8,
 NOW() AS Date
FROM
Trip t
WHERE
t.Trip_id = 1234;
SELECT * FROM Bill WHERE User_id = 5678 AND Driver_id = 9012 AND Date = (SELECT MAX(Date)
FROM Bill);
-- total amount spent on each trip by customer
SELECT
U.User_id,
U.First_name,
 U.Last_name,
SUM(T.Amount) AS Total_Amount_Spent
FROM
 User U
INNER JOIN Trip T ON U.User_id = T.User_id
GROUP BY
 U.User_id,
 U.First_name,
 U.Last_name
```

ORDER BY			
CLINA/T A	and DECC		
SUM(1.Ar	nount) DESC		

Code Explanation along with its output:

- An SQL script in the provided code produces several tables in a relational database.
 The attributes in each table, which each represent a different entity, explain the traits of that thing.
- Attributes like User_id, First_name, Last_name, Address, Age, Contact_no, and Email
 are contained in the "User" table. Users of a taxi service can have their information
 stored in this table.
- Taxi_id, Registration_no, Model, Manufactured_year, Taxi_type, Status, and Owner_id are some of the elements in the "Taxi" table. Information on taxis, including their owners, can be kept in this table.
- Attributes in the "Owner" table include Owner_id, SSN, Name, and Company_id. Information on the taxi proprietors can be kept in this table.
- Attributes like Company_id, Tcs_id, and Tsc_name are contained in the "Company" table.
- This is an SQL query that inserts data into a table called "Login". The table has
 columns named "User_id", "Login_id", "Password", "Credit_card_no", and "Balance".
- The values being inserted into the table are:
- For the first row: User_id is 1, Login_id is 'john@example.com', Password is 'password1', Credit card no is '1234567812345678', and Balance is 100.00.
- For the second row: User_id is 2, Login_id is 'jane@example.com', Password is 'password2', Credit_card_no is '2345678923456789', and Balance is 200.00.
- For the third row: User_id is 3, Login_id is 'bob@example.com', Password is 'password3', Credit_card_no is '3456789034567890', and Balance is 300.00.
- For the fourth row: User_id is 4, Login_id is 'alice@example.com', Password is 'password4', Credit_card_no is '4567890145678901', and Balance is 400.00.
- For the fifth row: User_id is 5, Login_id is 'david@example.com', Password is 'password5', Credit card no is '5678901256789012', and Balance is 500.00.
- For the sixth row: User_id is 6, Login_id is 'sarah@example.com', Password is 'password6', Credit_card_no is '6789012367890123', and Balance is 600.00.
- For the seventh row: User_id is 7, Login_id is 'sam@example.com', Password is 'password7', Credit_card_no is '7890123478901234', and Balance is 700.00.
- For the eighth row: User_id is 8, Login_id is 'emily@example.com', Password is 'password8', Credit_card_no is '8901234589012345', and Balance is 800.00.
- For the ninth row: User_id is 9, Login_id is 'matt@example.com', Password is 'password9', Credit card no is '9012345690123456', and Balance is 900.00.
- For the tenth row: User_id is 10, Login_id is 'lisa@example.com', Password is 'password10', Credit_card_no is '1234567812345678', and Balance is 1000.00.

```
175

176 • SELECT * FROM User;

177 • SELECT name, gender FROM Driver WHERE rating >= 3;

178 • SELECT Bill_no, User_id, Amount FROM Bill WHERE Amount > 50.00;
```

These are three separate SQL queries:

- 1. "SELECT * FROM User": This query selects all columns from a table called "User". It will return all rows and columns from that table.
- 2. "SELECT name, gender FROM Driver WHERE rating >= 3": This query selects only the "name" and "gender" columns from a table called "Driver" where the "rating" column is greater than or equal to 3. It will return only the rows that meet this condition.
- 3. "SELECT Bill_no, User_id, Amount FROM Bill WHERE Amount > 50.00": This query selects the "Bill_no", "User_id", and "Amount" columns from a table called "Bill" where the "Amount" column is greater than 50.00. It will return only the rows that meet this condition.

```
-- this fun calculates the total amount earned by the company and the driver.

SELECT

c.Tsc_name AS Company_Name,

COUNT(t.Taxi_id) AS Total_Trips,

SUM(tr.Amount) AS Total_Amount,

SUM(tr.Amount * 0.8) AS Driver_Fee,

SUM(tr.Amount * 0.2) AS Company_Fee

FROM

Company c

JOIN Owner o ON c.Company_id = o.Company_id

JOIN Taxi t ON o.Owner_id = t.Owner_id

JOIN Trip tr ON t.Taxi_id = tr.Taxi_id

GROUP BY

c.Tsc_name;
```

This is an SQL query that retrieves data from several tables related to taxi trips and fees, and groups the results by company name. Here is a breakdown of the query:

- The SELECT clause specifies the columns to retrieve and some computed values. The alias "Company_Name" is used for the "Tsc_name" column of the "Company" table. "Total_Trips" is the count of all taxi trips for the company. "Total_Amount" is the sum of all trip amounts for the company. "Driver_Fee" is 80% of the total trip amount for the company, representing the fee paid to the driver. "Company_Fee" is 20% of the total trip amount for the company, representing the fee paid to the company.
- The FROM clause specifies the tables to use for the query and the relationships between them. Four tables are joined: "Company", "Owner", "Taxi", and "Trip". The "Company" and "Owner" tables are joined on their respective ID columns. The "Owner" and "Taxi" tables are joined on their respective ID columns. The "Taxi" and "Trip" tables are joined on their respective ID columns.
- The GROUP BY clause groups the result set by the company name, which is the alias used for the "Tsc_name" column of the "Company" table. This means that the query will return one row per company, with the computed values aggregated over all taxi trips for that company.

Overall, this query computes the total number of trips, the total amount, and the respective fees paid to the driver and the company for each taxi company in the dataset.



```
SELECT

u.First_name || ' ' || u.Last_name AS User_name,

u.Contact_no AS Contact_number,

COUNT(t.Trip_id) AS Total_trips

FROM

User u

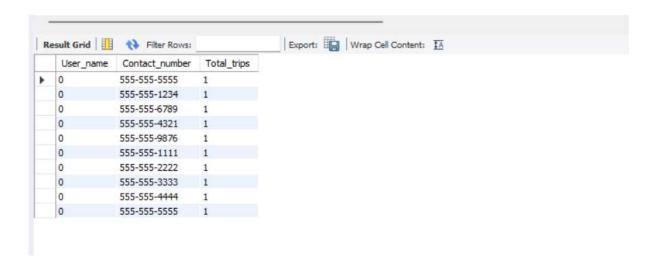
JOIN Trip t ON u.User_id = t.User_id

GROUP BY

u.User_id;
```

This is an SQL query that retrieves data from two tables related to taxi trips and users, and groups the results by user. Here is a breakdown of the query:

- The SELECT clause specifies the columns to retrieve and some computed values. The "User_name" column is a concatenation of the "First_name" and "Last_name" columns of the "User" table, separated by a space. The "Contact_number" column is the "Contact_no" column of the "User" table. "Total_trips" is the count of all taxi trips for the user.
- The FROM clause specifies the tables to use for the query and the relationship between them. Two tables are joined: "User" and "Trip". The "User" and "Trip" tables are joined on their respective ID columns.
- The GROUP BY clause groups the result set by the user ID, which is the unique identifier of each user in the "User" table. This means that the query will return one row per user, with the computed values aggregated over all taxi trips for that user.



```
37 .
         SELECT
        t.Registration_no AS Taxi_registration,
8
        t.Model AS Taxi model,
9
        COUNT(tr.Trip_id) AS Total_trips
0
1
       FROM
2
         Taxi t
3
        JOIN Trip tr ON t.Taxi_id = tr.Taxi_id
       GROUP BY
4
.5
         t.Taxi_id;
```

This is an SQL query that retrieves data from two tables related to taxi trips and taxis, and groups the results by taxi. Here is a breakdown of the query:

- The SELECT clause specifies the columns to retrieve and some computed values. The "Taxi_registration" column is the "Registration_no" column of the "Taxi" table. The "Taxi_model" column is the "Model" column of the "Taxi" table. "Total_trips" is the count of all taxi trips made with the taxi.
- The FROM clause specifies the tables to use for the query and the relationship between them. Two tables are joined: "Taxi" and "Trip". The "Taxi" and "Trip" tables are joined on their respective ID columns.
- The GROUP BY clause groups the result set by the taxi ID, which is the unique identifier of each taxi in the "Taxi" table. This means that the query will return one row per taxi, with the computed values aggregated over all taxi trips made with that taxi.

Overall, this query computes the total number of trips made by each taxi in the dataset, along with its registration number and model. By grouping the results by taxi, the query provides a summary of each taxi's activity in the system.

R	esult Grid 📗 🔌	Filter Rows:		Export	Wrap Cell Content:	1/
	Taxi_registration	Taxi_model	Total_trips			
٠	ABC123	Toyota Corolla	1			
	DEF456	Honda Civic	1			
	GHI789	Chevrolet Suburban	1			
	JKL012	BMW 5 Series	1			
	MNO345	Chrysler Pacifica	1			
	PQR678	Ford Mustang	1			
	STU901	Nissan Altima	1			
	VWX234	Tesla Model S	1			
	YZA567	Toyota Sienna	1			
	BCD890	Jeep Wrangler	1			

```
INSERT INTO Bill (User_id, Driver_id, Amount, Date)

SELECT

t.User_id,
t.Driver_id,
t.Amount * 0.5,
NCM() AS Date

FROM

Trip t

NHERE

t.Trip_id = 1234;

SELECT * FROM Bill NHERE User_id * 5678 AND Driver_id * 9912 AND Date * (SELECT NAX(Date) FROM Bill);
```

This is an SQL query that inserts a new row into the "Bill" table, using data from the "Trip" table. Here is a breakdown of the query:

- The INSERT INTO clause specifies the table to insert data into, which is the "Bill" table. The columns to insert data into are not explicitly specified, but they are assumed to be all columns of the table.
- The SELECT clause specifies the data to insert into the table. The "User_id" column is the "User_id" column of the "Trip" table. The "Driver_id" column is the "Driver_id" column of the "Trip" table. The "Amount" column is 80% of the "Amount" column of the "Trip" table, which represents the fee paid to the driver. The "Date" column is set to the current date and time using the NOW() function.
- The WHERE clause specifies which row of the "Trip" table to use for the data insertion, based on the "Trip_id" column. In this case, only the trip with ID 1234 will be considered for the data insertion.

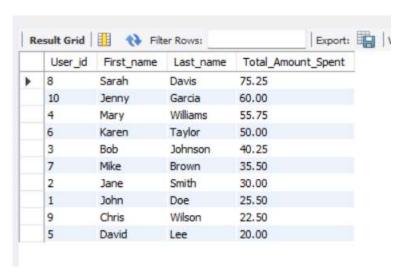
The second query:

- The SELECT clause retrieves all columns from the "Bill" table.
- The WHERE clause specifies the conditions for the rows to retrieve. In this case, only the rows where "User_id" is 5678, "Driver_id" is 9012, and "Date" is the maximum date in the table will be retrieved. This means that the query will return the most recent bill for the specified user and driver.

Overall, these two queries work together to insert a new bill into the system for a specific trip, and then retrieve the most recent bill for a specified user and driver.

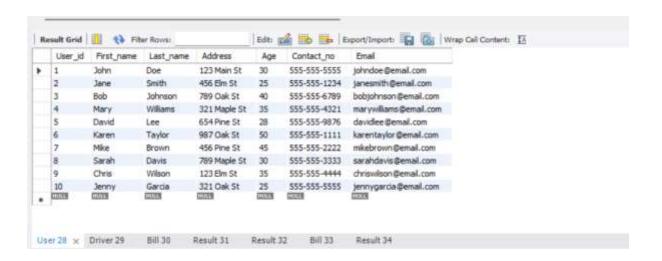
```
-- total amount spent on each trip by customer
223
        SELECT
224 •
225
          U.User_id,
          U.First_name,
226
227
          U.Last_name,
          SUM(T.Amount) AS Total Amount Spent
228
        FROM
229
230
          User U
          INNER JOIN Trip T ON U.User_id = T.User_id
231
        GROUP BY
232
          U.User id,
233
          U.First_name,
234
235
          U.Last name
        ORDER BY
236
          SUM(T.Amount) DESC
237
238
239
240
```

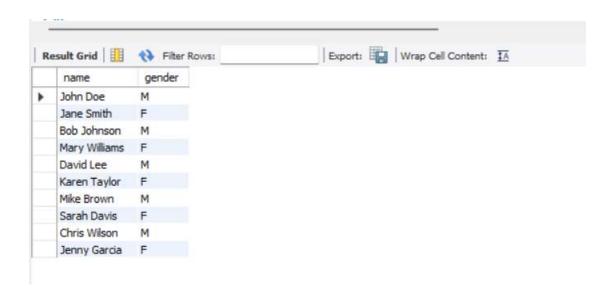
- The query retrieves data from two tables: "User" and "Trip".
- It joins the tables on their respective ID columns.
- The query groups the result set by user ID, first name, and last name.
- It computes the total amount spent on taxi trips by each user.
- The results are sorted in descending order of the total amount spent.
- The query returns one row per user, with the computed values aggregated over all taxi trips for that user.

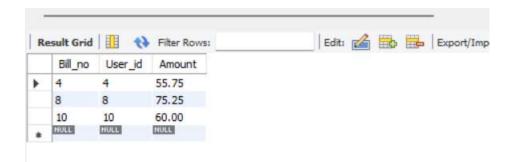


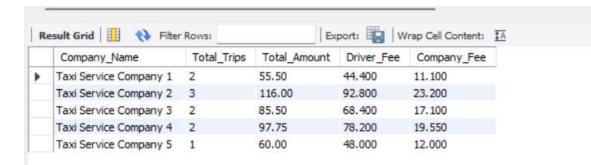
Output snippets:

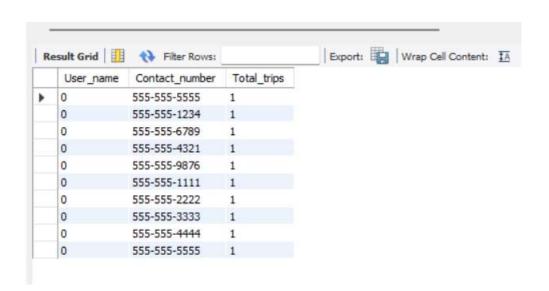
Did	ul			
3	Action Output	•		
1	Tire	Acton	Message	Duration / Fetch
9	1 01:22:03	CREATE TABLE liser (User_id INT PRIMARY KEY, First_name VARCHAR(SD, Last_name VARCHAR(S	0 row(s) affected	0.031 sec
2	2 01.2203	CREATE TABLE Tax (Tax_id INT PRIMARY KEY: Regulation_no VARCHAR(20), Model VARCHAR(50).	Ürowis) affected	9.031 sec
0	3 01 22 03	CREATE TABLE Owner (Owner_id INT PRIMARY KEY, SSN VARCHARQO), Name VARCHAR(SO), Co	Orow(s) affected	0.016 sec
0	4 01:22:03	CREATE TABLE Company (Company of INT PRIMARY KEY, Tos of WARCHAR20), Tso name WARCH	Drow(s) affected	0.015 sec
2	5 01:22:03	CREATE TABLE Diver Diver_id INT PRIMARY KEY, Name VARCHAR(SI), Gender VARCHAR(10), C	0 row(s) affected	0.016 sec
9	6 01 22 03	CREATE TABLE Trp (Trp_id INT PRIMARY KEY, User_id INT, Tox_id INT, Start_time DATETIME, E.	Drowt) affected	0.031 sec
0	7 01:22:03	CREATE TABLE BILL BILL O INT PRIMARY KEY, User_id INT, Dinver_id INT, Amount DECIMAL(10,2),	Orow(s) affected	0.000 sec
9	8 01:22:03	CREATE TABLE Logn User_id INT PRIMARY KEY, Logn_id VARCHARISO), Password VARCHARISO,	0 row(s) affected	0.015 sec
0	9 01:22:03	INSERT INTO User (Liter jd. Fint jname, Last jname, Address, Age, Contact jno, Email) VALUES: (1, Vehn);	10 rowls) affected Records: 10 Duplicates: 0 Warrings: 0	0.016 sec
2	10 01:22:03	INSERT INTO Taxi (Taxi_id. Registration_ro, Model, Manufactured_year, Taxi_type, Status, Owner_id) VALU.	10 rowb) affected Records: 10 Duplicates: 0 Warrings: 0	0.000 sec
9	11 01:22:03	INSERT INTO Owner (Owner_id, SSN, Name, Company_id) VALUES: (1, 123-45-6789; John Smith; 1), (2, _	10 rowls) affected Records: 10 Duplicates: 0 Warrings: 0	0.000 sec
0	12 01.2203	INSERT INTO Company (Company Jd. Tot. jd. Tat. name) VALUES (1, TCS001', Tax Service Company 1)	10 row(s) affected Records: 10 Duplicates: 0 Warrings: 0	0.000 sec
0	13 01:22:03	INSERT INTO Driver (Dever_id, Name, Gender, Contact_no, Rating, Age) VALUES (1, 'John Doe', Mr, 1955	10 row(s) affected Records: 10 Duplicates: 0 Warrings: 0	0.015 sec
2	14 01 22 03	INSERT INTO Top (Trip_id, User_id, Taxi_id, Start_time, End_time, Anount, Promotorual_code, Feedback, Dr.	10 rowls) affected Records: 10 Duplicates: 0 Warnings: 0	0.000 sec
2	15 01:22:03	INSERT INTO BII (Bil jno, User jd. Driver jd. Amount, Date) VALUES (1, 1, 1, 25.50, 2023-07-16 12:30:00)	10 rowisi affected Records: 10 Duplicates: 0 Warnings: 0	0.000 sec
0	16 01:22:03	INSERT INTO Logn (User_id, Login_id, Password, Credit_card_no, Balance) VALUES (1, john@example.co	10 rowisi affected Records: 10 Duplicates: 0 Wanings: 0	0.000 sec
9	17 \$1.22(3)	SELECT FROM User LIMIT 0, 1000	10 rowls) returned	0.015 sec / 0.000
0	18 01:22:03	SELECT name, gender FROM Driver WHERE rating >= 3 LIMIT 0, 1000	10 raw(s) returned	0.000 sec / 0.000
0	19 01.2203	SELECT BILINO, User Jd., Amount FROM BIL WHERE Amount > 50.00 LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000
2	20: 01:22:03	SELECT: c.Tisc_mane AS Company_Name. COUNTE.Taxi_jd) AS Total_Tips. SUMbr Amount) AS Total_A.	5 rowls) returned	0.000 sec / 0.000
9	21 01 22 03	SELECT u First name ("Tu Last name AS User name, u Contact no AS Contact number, COUNT); Tis.	10 rowski returned	0.000 sec / 0.000
9	22 01 22 04	SELECT it Registration for AS Taxi projectation, it Model AS Taxi model, COUNTE: Trought AS Total trops	10 towis returned	0,000 sec / 0,000
,	23 01:22:04	INSERT INTO BII (User jd. Driver jd. Amount, Date) SELECT 1: User jd. 1: Driver jd. 1: Amount "0.8. NO	Orowisi affected Records: 0 Duplicates: 0 Warrings: 0	0.000 sec
0	24 01:22:04	SELECT FROM BILWHERE User jd + 5670 AND Dever jd + 9012 AND Date + (SELECT MAXIDate) FRO	Drawis) returned	0.000 sec / 0.000
9	25 01:2204	SELECT U. User id. U. Fint name, U.Last name, SUMIT Anount) AS Total Amount Spent FROM U.	10 rowln) returned	0.000 sec / 0.00

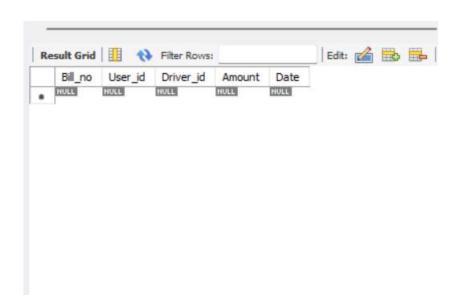


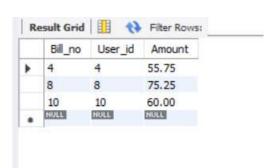




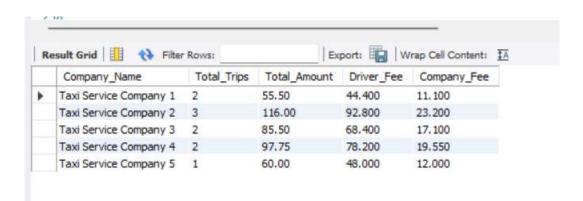












	name	gender
٠	John Doe	M
	Jane Smith	F
	Bob Johnson	M
	Mary Williams	F
	David Lee	M
	Karen Taylor	F
	Mike Brown	M
	Sarah Davis	F
	Chris Wilson	M
	Jenny Garcia	F