



# myofficcab

MGMT582 Project Presentation

Group 8



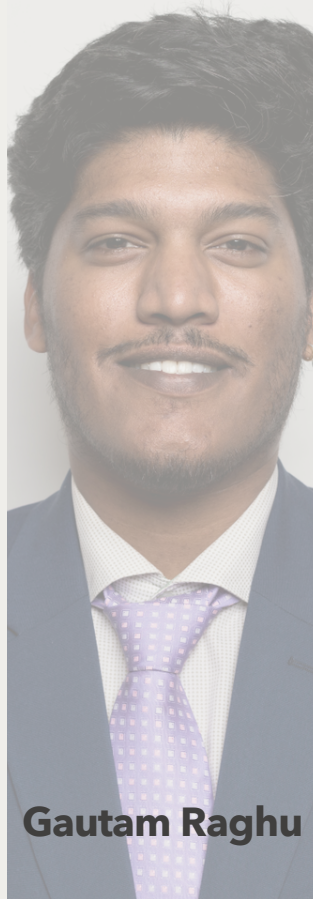
# Group 8 Members



**Anto Frederic  
Henry Mohan  
Das**



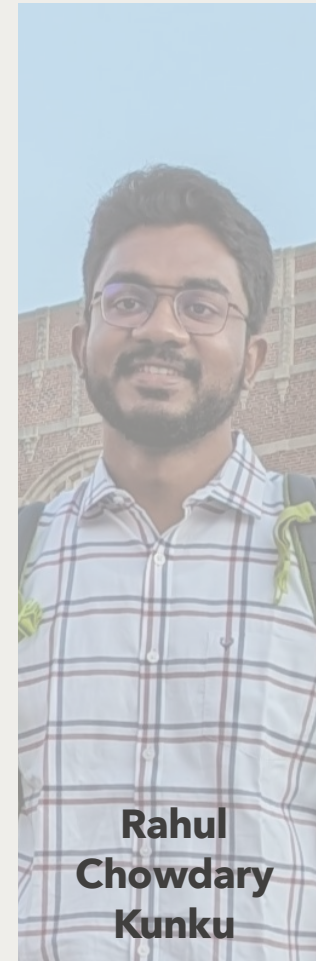
**Chaitanya  
Varma  
Sanaboina**



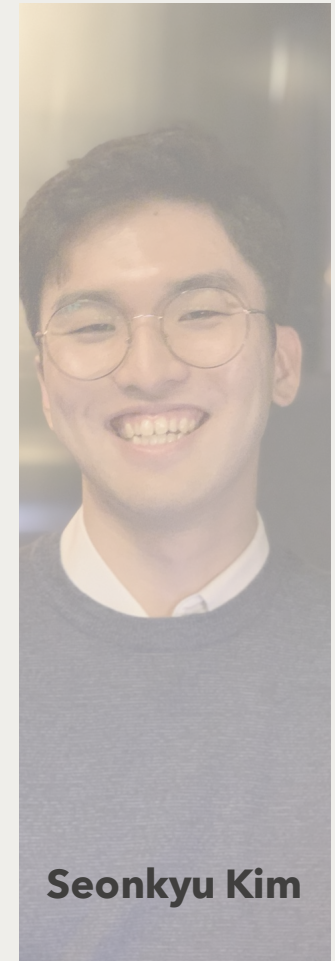
**Gautam Raghu**



**Mithila Reddy  
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**Rahul  
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**Seonkyu Kim**

# myofficcab

A pioneering eco-transportation company in India



Employee transportation solution for corporations



Fleet comprising various types of vehicles



Provides eco-friendly commutes

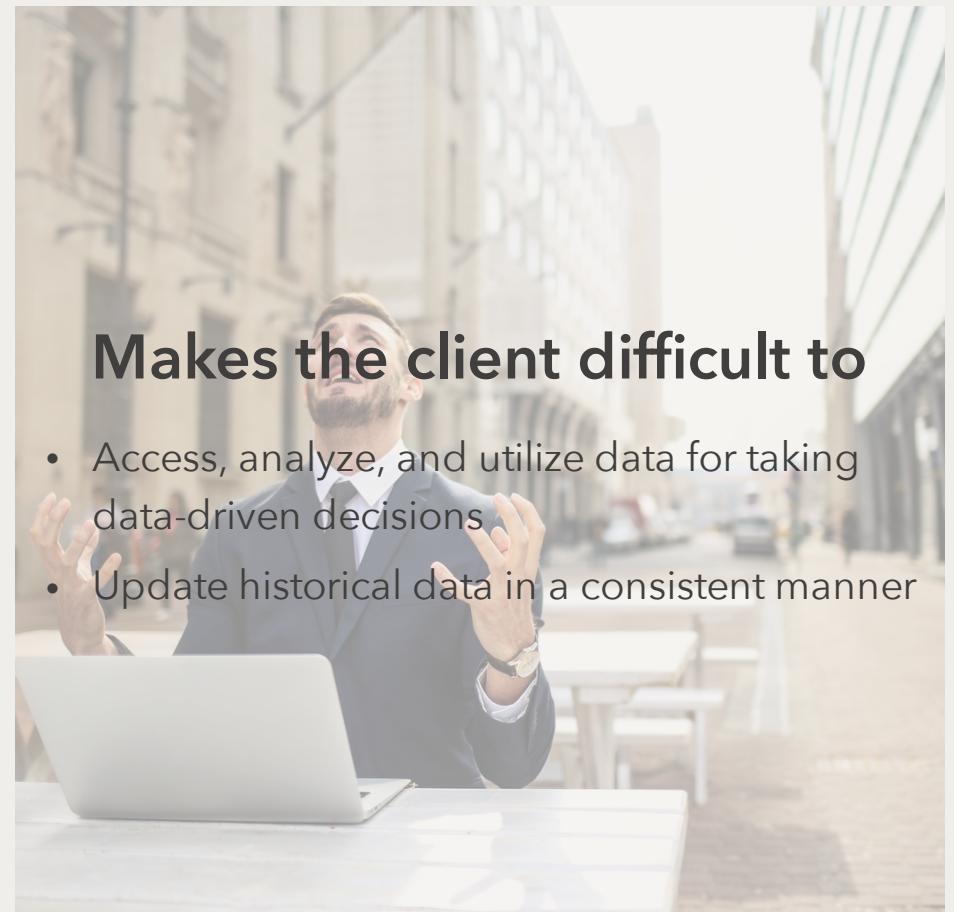


# Business Problem



## Absence of the digitalized and centralized database

- Currently relying heavily on offline methods for data management



## Makes the client difficult to

- Access, analyze, and utilize data for taking data-driven decisions
- Update historical data in a consistent manner



# Project Goal & Objectives

## Goal

- Efficient management of data related to customers, transactions, fleet management, and employee details

## Objectives

**Developing a more structured and centralized Database Management System (DBMS) facilitated through SQL**

- Enhance information management
- Streamline ETL processes
- Unlock valuable insights for understanding key metrics (e.g., month-on-month trips, top drivers month-on-month, busiest days of the week)
- Identify high-profit segments and channels

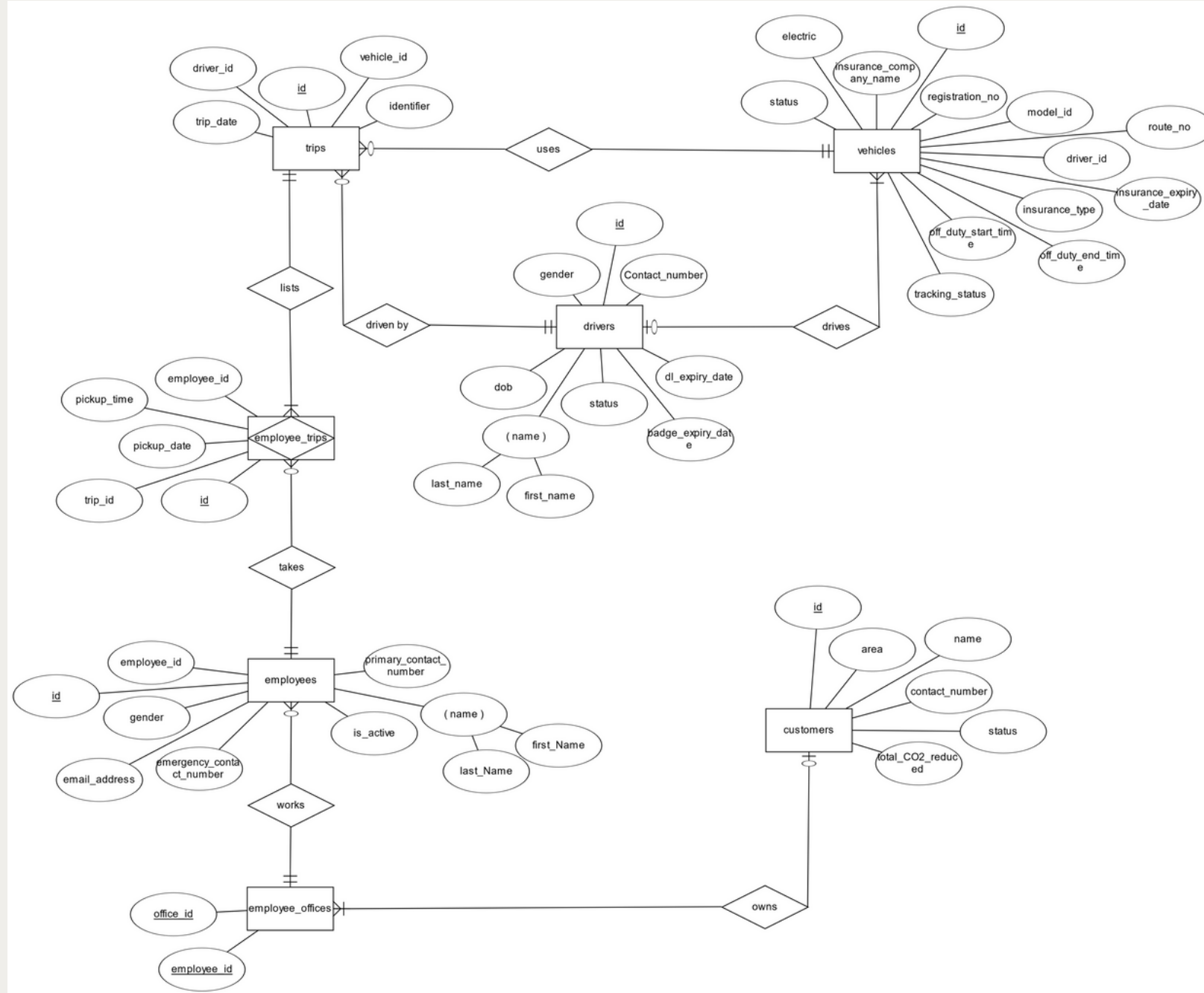


# Tables and Dataset

1. **Employees:** employee details such as employee ID, employee name consisting of first name and last name, gender, email address, primary contact, emergency contact, and active status
2. **Employee\_trips:** details of employees and their corresponding trips, along with pickup date, time, etc.
3. **Employee\_offices:** mapping between employees and customers
4. **Trips:** data for all trips, including driver and vehicle details
5. **Vehicles:** information regarding vehicles in fleet, including insurance details and registration information
6. **Drivers:** information regarding employed drivers, including name and license expiration
7. **Customers** (i.e., offices whose employees use myofficecab): information regarding the customer names and office location

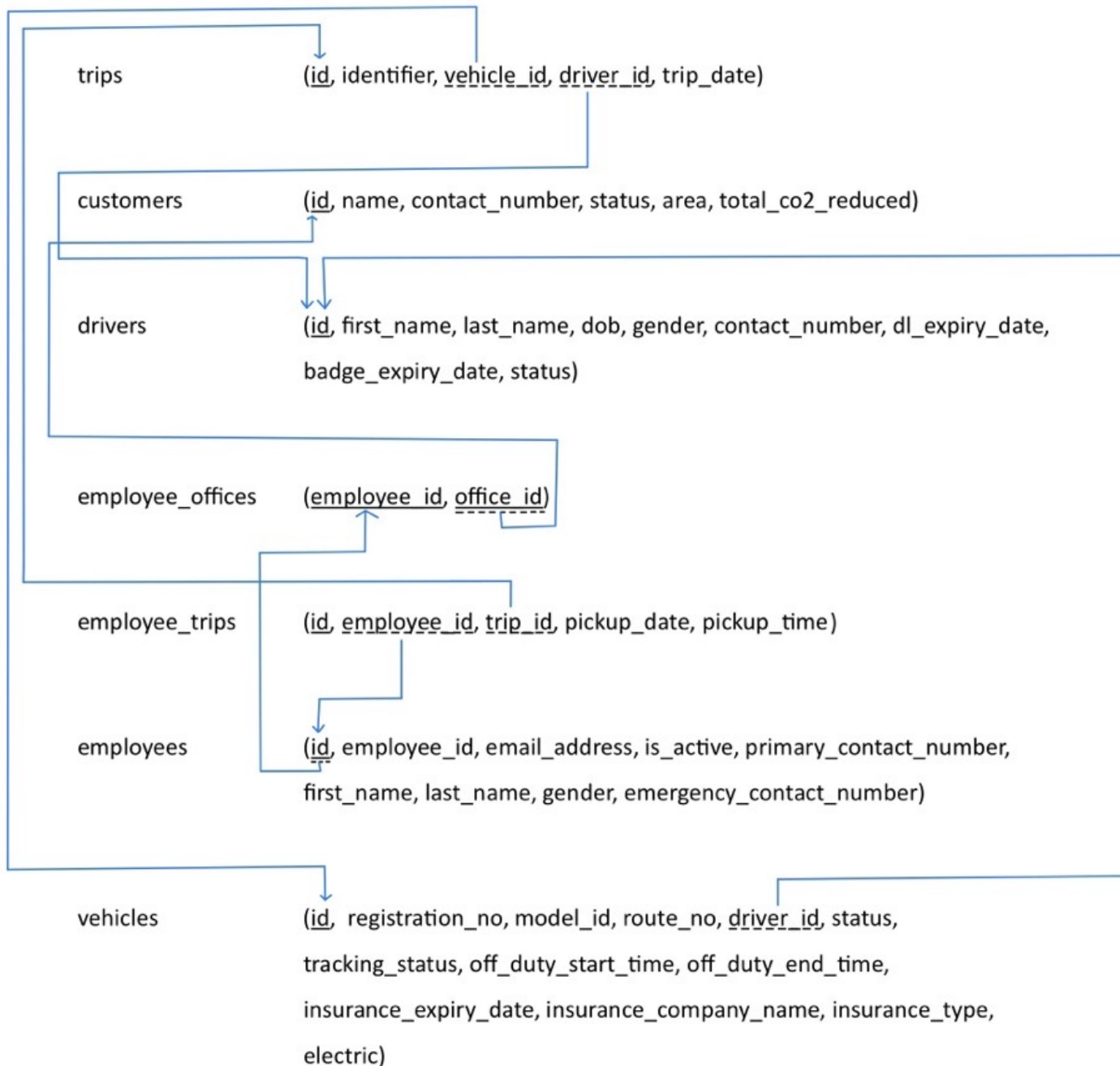


# Conceptual Data Modeling (ERD)





# Relational Data Model (Relational Schema)



# Queries

**Look into the data to generate meaningful insights for the client**

- Trend of trips over time
- Identify the busiest days of the week
- Identify the busiest times of the day
- Flag rides exposed to insurance risk
- Locate areas with high demand

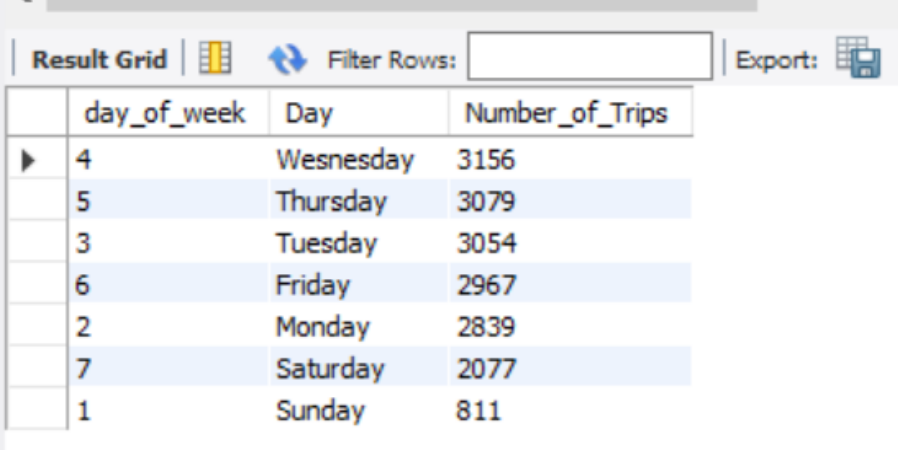


# Queries Example

## Identifying the busiest day of the week

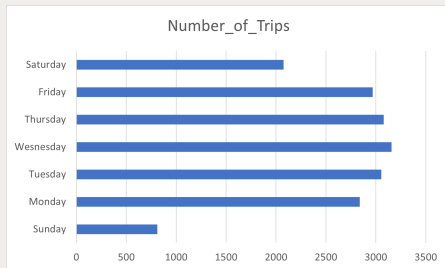
```
1 -- Query 4 -- Identifying busiest day of the week
2 • select day_of_week,
3 case when day_of_week =1 then 'Sunday' when day_of_week =2 then 'Monday' when day_of_week =3 then 'Tuesday'
4 when day_of_week =4 then 'Wednesday' when day_of_week =5 then 'Thursday' when day_of_week =6 then 'Friday'
5 when day_of_week =7 then 'Saturday' else 'Error' end as "Day",count(*) as Number_of_Trips
6 from(
7 select *,
8 dayofweek(concat(right(trip_date,4),'-',left(trip_date,2),'-',mid(trip_date,4,2))) as day_of_week
9 from trips t
10 left join (select distinct trip_id,pickup_date,pickup_time from employee_trips) et
11 on t.id = et.trip_id) a
12 group by 1,2
13 order by 3 desc;
```

## Output

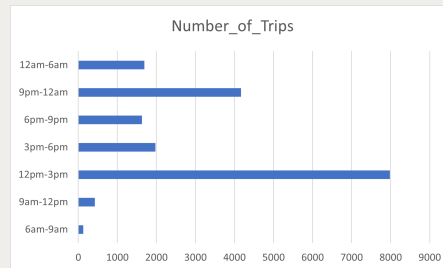


day_of_week	Day	Number_of_Trips
4	Wednesday	3156
5	Thursday	3079
3	Tuesday	3054
6	Friday	2967
2	Monday	2839
7	Saturday	2077
1	Sunday	811

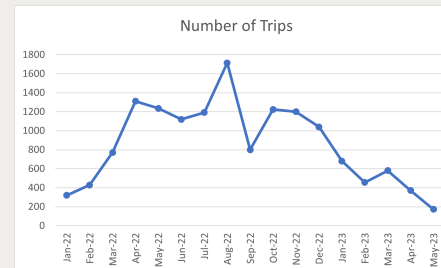
# Insights



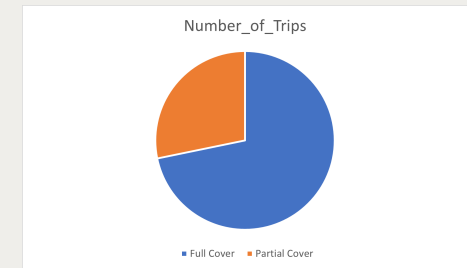
- The busiest day of the week: Wednesday and Thursday



- The busiest time slots: 12PM to 3 PM and 9PM to Midnight



- The maximum number of trips: 1714 (taken during August 2022)



- ~ 28 % of the rides were in partially insured cabs.
- The client could consider upgrading to full coverage to mitigate risks from accidents.



# Future Recommendations



**Minimized Manual Effort for the Billing Team**

*Trip sign-off status* and *employee\_trips* table will help manage completed trips and estimate the revenue of the trips.



**Expansion of Operations**

Can onboard more clients and store data in the trips table.



**Future Records**

Introducing new tables, such as the *feedback* table, will help the company assess their drivers in a better way.



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