

# FINAL SPRINT

---

PROJECT 1 – ERD & REPORT DESIGN

BY GROUP – 2

## GROUP MEMBERS:

- |                  |                   |
|------------------|-------------------|
| 1. MELANIE ADAMS | 4. EUGENE KEPICH  |
| 2. MAY BASALO    | 5. JENNIFER LYVER |
| 3. JACOB CRUMMEY | 6. HARINI MANOHAR |

# HAB TAXI SERVICES

## ENTITY - RELATIONSHIP DIAGRAM

Defaults.dat	
Next-Transact-Num	143
Next-Driver-Num	1922
Monthly-Stand-Fee	175.00
Daily-Rental-Fee	60.00
Weekly-Rental-Fee	300.00
HST-Rate	0.15

Employees	
<b>Driver-ID (PK)</b>	
Name	
Status (working/leave)	
Address	
Phone-Number	
DL-Number	
License-Expiry	
Insurance-Company	
Insurance-Number	
Own-Car	
Balance-Due	

Expenses	
<b>Invoice-ID (PK)</b>	
Invoice-Date	
<b>Driver-ID (FK)</b>	
<b>Maintenance-ID (FK)</b>	
<b>Rental-ID (FK)</b>	
Subtotal	
HST	
Total	

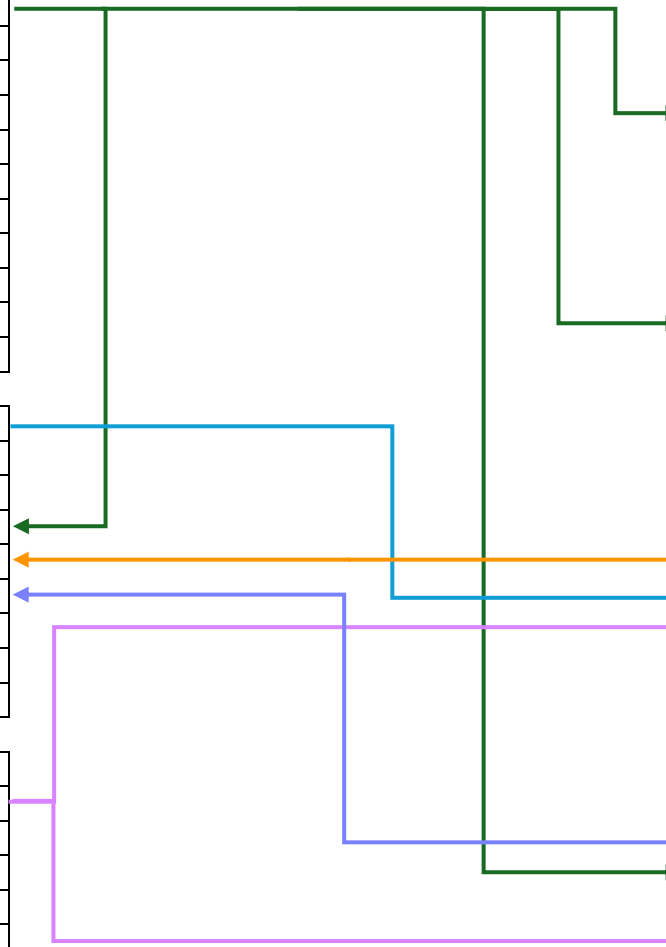
Cars	
<b>Car-ID (PK)</b>	
Car-Make	
Car-Model	
Car-Year	
Car-License-Plate	
Car-Status	

Revenue	
<b>Transaction-ID (PK)</b>	
Transaction-Date	
Transact-Description	
<b>Driver-ID (FK)</b>	
HST	
Total	

Payments	
<b>Payment-ID</b>	
<b>Driver-ID (FK)</b>	
Payment-Date	
Payment-Amount	
Payment-Reason	
Payment-Method	

Maintenance	
<b>Maintenance-ID (PK)</b>	
<b>Invoice-ID (FK)</b>	
<b>Car-ID (FK)</b>	
Maintenance-Date	
Maintenance-Desc	
Maintenance-Cost	

Rentals	
<b>Rental-ID (PK)</b>	
<b>Driver-ID (FK)</b>	
Start-Date	
<b>Car-ID (FK)</b>	
Rental-Duration	
Rental-Cost	



## EXTRA FEATURES

### 1. New Entity: Cars:

- **Purpose:** Manage and track vehicles used in HAB Taxi Services.
- **Attributes:**
  - Car-Number (Primary Key): Unique identifier for each car.
  - Car-Make: Manufacturer of the car (e.g., Toyota, Ford).
  - Car-Model: Specific model of the car (e.g., Camry, Focus).
  - Car-Year: Year the car was manufactured.
  - Car-License-Plate: License plate number of the car.
  - Car-Status: Current status (e.g., available, rented, under maintenance).
- **Benefits:**
  - Centralized management of vehicle information.
  - Track car availability and status.
  - Better record-keeping for maintenance and rental history.

### 2. Updated Rentals Entity:

1. **Change:** Added Car-Number as a foreign key to reference the Cars table.
2. **Purpose:** Link rental information directly to specific vehicles.
3. **Benefits:**
  - Improved tracking of car rentals.
  - Accurate linkage of rental transactions to vehicles.

### 3. New Entity: Maintenance:

- **Purpose:** Record all maintenance activities for vehicles.
- **Attributes:**
  - Maintenance-ID (Primary Key): Unique identifier for each maintenance record.
  - Invoice-Number (Foreign Key): References the Expenses table to associate the maintenance record with the corresponding invoice.
  - Car-Number (Foreign Key): References the Cars table.
  - Maintenance-Date: Date of maintenance.
  - Maintenance-Desc: Description of maintenance work.
  - Maintenance-Cost.
- **Benefits:**
  - By linking each maintenance activity to an invoice, it ensures that all maintenance costs are accurately recorded and traceable.

### 4. Updated Employees Entity:

- **Change:** The status attribute is added to the Employees entity to track whether a driver is working on a given day or is on holiday. This allows the system to accurately apply stand fees only to those drivers who are actively working, ensuring fair and accurate billing.

# RECEIPT DESIGNS

## CAR RENTAL RECEIPT

1234567890123456789012345678901234567890123456789012345678901234567890123456789012345  
1 2 3 4 5 6 7 8

-----  
HAB TAXI SERVICES  
123 ANY STREET  
ST. JOHN'S, NL A1A 1A1  
(709) 555-1234  
-----

Customer Name : XXXXXXXXXXXXXXXXXXXXXXXX  
Customer Phone: (XXX) XXX-XXXX  
-----

Rental ID : #####  
Driver Number : #####  
Rental Date : YYYY-MM-DD  
Car Number : ###  
Rental Duration : ### days  
-----

Rental Cost : \$#,###.##  
HST (15%) : \$###.##  
-----

Total Cost : \$##,###.##  
-----

Thank you for choosing  
HAB Taxi Services!  
-----

BALANCE PAYMENT RECEIPT

1234567890123456789012345678901234567890123456789012345678901234567890123456789012345  
1 2 3 4 5 6 7 8

-----  
HAB TAXI SERVICES  
123 ANY STREET  
ST. JOHN'S, NL A1A 1A1  
(709) 555-1234  
-----

Customer Name : XXXXXXXXXXXXXXXXXXXXXXXX  
Customer Phone: XXXXXXXXXX  
-----

Payment ID : #####  
Driver Number : #####  
Payment Date : YYYY-MM-DD  
Payment Reason : XXXXXXXXXXXXXXXXXXXX  
Payment Method : XXXXXXXXXXXXXXXXXXXX  
-----

Payment Amount : \$##,##.##  
-----

Thank you for your payment!  
-----

PROFIT LISTING REPORT

1234567890123456789012345678901234567890123456789012345678901234567890123456789012345  
1 2 3 4 5 6 7 8

-----  
HAB TAXI SERVICES  
123 ANY STREET  
ST. JOHN'S, NL A1A 1A1  
(709) 555-1234  
-----

PROFIT LISTING REPORT  
From: YYYY-MM-DD To: YYYY-MM-DD  
-----  
Total Revenues: \$\$\$,###.##  
Total Expenses: \$\$\$,###.##  
-----  
Profit (Loss) : \$\$\$,###.##  
-----

Thank you! Have a nice day!  
-----

DRIVER FINANCIAL LISTING

1234567890123456789012345678901234567890123456789012345678901234567890123456789012345  
1 2 3 4 5 6 7 8

-----  
HAB TAXI SERVICES  
123 ANY STREET  
ST. JOHN'S, NL A1A 1A1  
(709) 555-1234  
-----

DRIVER FINANCIAL LISTING  
Driver Number : #####  
Driver Name : XXXXXXXXXXXXXXXXXXXXXXXX  
From: YYYY-MM-DD To: YYYY-MM-DD  
-----

Date	Description	Amount
YYYY-MM-DD	XXXXXXXXXXXXXXXXXXXXX	\$#,###.##
YYYY-MM-DD	XXXXXXXXXXXXXXXXXXXXX	\$#,###.##
YYYY-MM-DD	XXXXXXXXXXXXXXXXXXXXX	\$#,###.##
Total Revenues:		\$#,###.##

-----  
Thank you for your business!  
-----