

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
Driver-ID (PK)
Name
Address
Phone-Number
DL-Number
License-Expiry
Insurance-Company
Insurance-Number
Own-Car
Balance-Due

Expenses
Invoice-ID (PK)
Invoice-Date
Driver-ID (FK)
Payment-ID (FK)
Maintenance-ID (FK)
Rental-ID (FK)
Subtotal
HST
Total

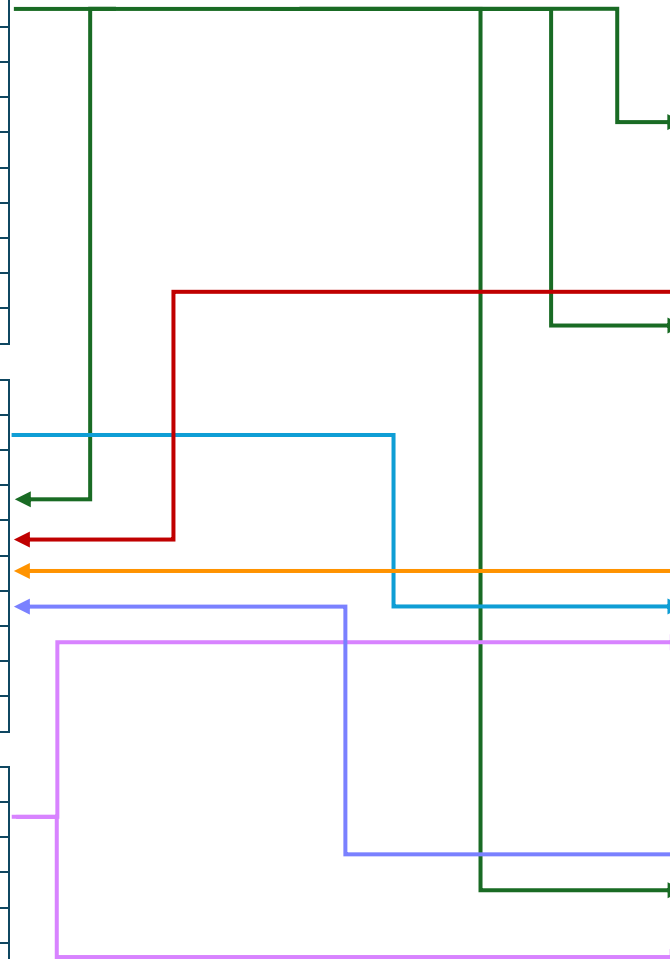
Cars
Car-ID (PK)
Car-Make
Car-Model
Car-Year
Car-License-Plate
Car-Status

Revenue
Transaction-ID (PK)
Transaction-Date
Transact-Description
Driver-ID (FK)
HST
Total

Payments
Payment-ID (PK)
Driver-ID (FK)
Payment-Date
Payment-Amount
Payment-Reason
Payment-Method

Maintenance
Maintenance-ID (PK)
Invoice-ID (FK)
Car-ID (FK)
Maintenance-Date
Maintenance-Desc
Maintenance-Cost

Rentals
Rental-ID (PK)
Driver-ID (FK)
Start-Date
Car-ID (FK)
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:

- **Change:** Added Car-Number as a foreign key to reference the Cars table.
- **Purpose:** Link rental information directly to specific vehicles.
- **Benefits:**

- Improved tracking of car rentals.
- Accurate linkage of rental transactions to vehicles.
- Detailed reporting on car usage and rental history.

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.

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!
