



ERD & REPORTS

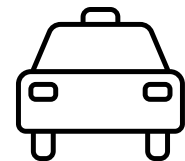
Final Project

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Robot Group 3

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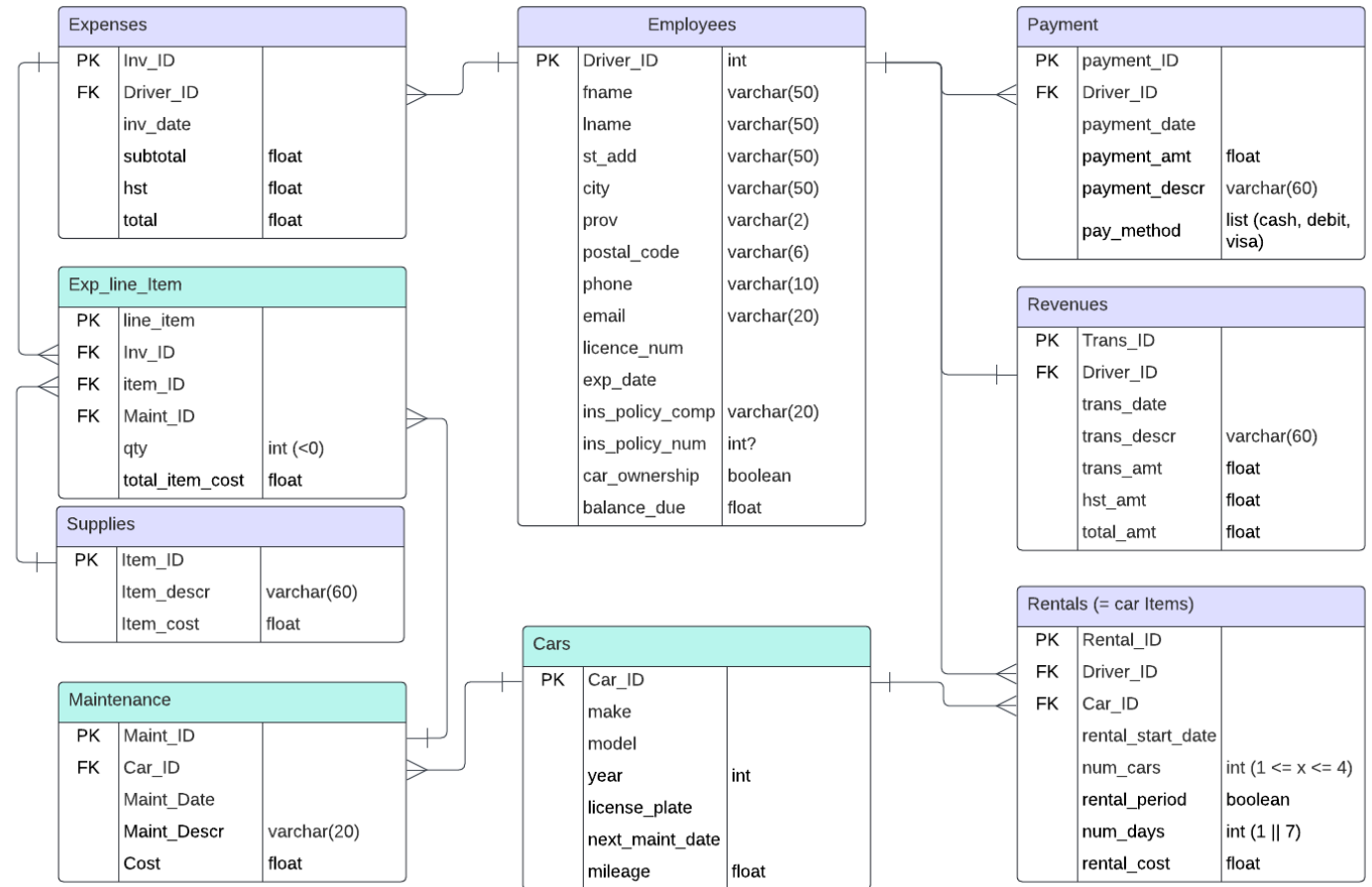
Entity Relationship Diagram

HAB TAXI Services

Diagram key

- from assignment
- proposed entity
- defaults

Defaults	
Next Transaction number	int
Next driver number	int
Monthly stand fee	float
Daily rental fee	float
Weekly rental fee	float
HST rate	float



Explanation for proposed entities

To enhance the operational efficiency and overall management of HAB Taxi Services, several new features have been integrated into the original ER model. These additions are designed to provide comprehensive tracking and oversight of key business components, ensuring that every aspect of the taxi service is carefully monitored. The enhancements include detailed records of company vehicles, maintenance activities performed on them, and a thorough breakdown of expenses. By incorporating these elements, the extended model offers a robust framework for managing the taxi business, supporting effective financial oversight, and maintaining high standards of operational readiness. Below is a detailed description of each of the newly added features.

Car Table

Cars		
PK	Car_ID	
	make	
	model	
	year	int
	license_plate	
	next_maint_date	
	mileage	float

- Records detailed information about each vehicle owned by HAB Taxi Services
- Connected to the Rentals table, allowing the system to track which car has been rented by a driver

Maintenance Table

Maintenance		
PK	MaintenanceID	
FK	Car_ID	
	Maint_Date	
	Maint_Descr	varchar(20)
	Cost	float

- Maintains comprehensive record of each vehicle's maintenance history
- Essential for both operational efficiency and safety compliance

Expense Line Item Table

Exp_line_Item		
PK	line_item	
FK	Inv_ID	
FK	item_ID	
FK	Maint_ID	
	qty	int (<0)
	total_item_cost	float

- Linked to the Expenses table, enabling precise tracking fund allocation across different business activities
- Associated with a specific supply item or maintenance work through the item_ID or maint_ID (as foreign key)

Integration with Existing Tables

- The **Car** and **Maintenance** tables work together to manage the upkeep and operational status of the company vehicles. The Maintenance table directly links maintenance activities to the relevant vehicles through the Car_ID.
- Similarly, the **Expense Line Item** and **Expenses** tables work together to provide a detailed account of costs related to business-related expenses, offering a detailed view of the company's financial outflows.

Reports

12345678901234567890123456789012345123456

HAB Taxi Services Receipt for Car Rental

Receipt No: xxxxxx
Receipt Date: yyyy-mm-dd
Reason for Receipt: xxxxxxxxxxxxxxxx

Employee Details:

Driver Number: xxxxxxxx
Name and Address: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxx, xx, xxxxxxxx
(xxx)xxx-xxxx (phone)
xxxxxxxxxxxxxx (email)

Car Rental Details:

Car Number: xx
Rental Type: xxxxxxxx
Start Date: yyyy-mm-dd
End Date: yyyy-mm-dd
Rental Cost: \$###.##
HST: \$###.##

Total: \$###.##
Balance Due: \$###.##

Payment Method: xxxxxxxxxxxx

12345678901234567890123456789012345

HAB Taxi Services Receipt for Payment

Receipt No: xxxxxx
Receipt Date: yyyy-mm-dd
Reason for Receipt: xxxxxxxxxxxxxxxx

Employee Details:

Driver Number: xxxxxxxx
Name and Address: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxx, xx, xxxxxxxx
(xxx)xxx-xxxx (phone)
xxxxxxxxxxxxxx (email)

Payment Details:

Payment Date: yyyy-mm-dd
Payment Amount: \$###.##

Balance Due: \$###.##
Payment Method: xxxxxxxxxxxx

Note: New BalDue

= abs(Prev BalDue - Payment Amt(payment))

Note: New BalDue = Previous Bal Due + Total Amt (rental)

1 2 3 4 5 6 7 8 9 1
012345678901234567890123456789012345678901234567890123456789012345678901234567890123456

HAB Taxi Services
Profit Listing Report

Enter Start Date : yyyy-mm-dd
Enter End Date : yyyy-mm-dd

Transaction ID	Transaction Date	Description	Driver Number	Transaction Amount	HST	Total
xxxxxx	yyyy-mm-dd	xxxxxxxxxxxxxxxxxxxxxx	xxxxxx	\$#####.##	\$###.##	\$#####.##
		:				
		:				
xxxxxx	yyyy-mm-dd	xxxxxxxxxxxxxxxxxxxxxx	xxxxxx	\$#####.##	\$###.##	\$#####.##
						Total Revenues: \$#####.##

1 2 3 4 5 6 7 8 9 1
012345678901234567890123456789012345678901234567890123456789012345678901234567

HAB Taxi Services Expenses Listing Report

Enter Start Date : yyyy-mm-dd
Enter End Date : yyyy-mm-dd

Invoice No	Invoice Date	Description	Employee Number	Subtotal	HST	Total
xxxxxx	yyyy-mm-dd.	xxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxx	\$#####.##	\$####.##	\$#####.##
		:				
		:				
xxxxxx	yyyy-mm-dd	xxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxx	\$#####.##	\$####.##	\$#####.##
						Total Expenses: \$#####.##

Profit (Loss): \$Total Revenues - \$Total Expenses

1 2 3 4 5 6 7 8 9
0123456789012345678901234567890123456789012345678901234567890123456789

HAB Taxi Services
Driver Financial Listing Report

Driver Details:

Driver Number : xxxx
Driver Name :xxxxxxxxxxxxxx

Enter Start Date : yyyy-mm-dd
Enter End Date : yyyy-mm-dd

Transaction ID	Transaction Date	Description	Transaction Amount	HST	Total
=====	=====	=====	=====	=====	=====
Xxxxxx.	yyyy-mm-dd	xxxxxxxxxxxxxxxxxxxxxx	\$#####.##	\$#####.##	\$#####.##
		:			
		:			
xxxxxxx	yyyy-mm-dd	xxxxxxxxxxxxxxxxxxxxxx	\$#####.##	\$#####.##	\$#####.##
=====	=====	=====	=====	=====	=====
					Total Revenues: \$#####.##