Group 17 Final ERD (Logical Model)

In the following ERD we've made several changes considering the feedback provided:

1. Relationship Establishment:

- Added relationship line between "Support" & "Reservation Entity"
- Added relationship between "Billing" and "Return & Inspection" (In case there's some damage reported)
- Added relationship between "Insurance" & "Reservation Entity" (Giving option to customer for Insurance)
- Added unary relationship in "Employee" (For Supervisors)
- Added relationship between "Employee" & "Rental Mart" (For Employees Working there)
- 2. Added Foreign Key in the entities wherever required.
- 3. Added several attributes in some entities here's the list of them:

Billing:

- Added: Reservation_ID(FK), Payment_Mode,
 Payment_Status, Bill Amount Total, Bill Amount Due (In case there was any advance deposit),
 Billing_Statement(Which will contain a summary of all the charges)
- Removed: None

Car:

- Added: Category_ID(FK), Store_ID(FK), Fuel Type, LicensePlate_Number, Color, Availability, Transmission_Type, Image URL
- Removed: None

Car_Category:

Added: Hourly_RateRemoved: Daily Rate

Customer:

• Added: First Name, Last Name, Driver's License Number

• Removed: Name

Employee:

 Added: Store_ID(FK), Supervisor_ID(FK), First Name, Last Name, Street Address, City, State, Country

Removed: Name. Address

Insurance:

 Added: Reservation_ID as a foreign key for the Insurance table

• Removed: None

Maintenance:

 Added: Car_ID(FK1) and Employee_ID(FK2) as the foreign keys for the Maintenance table

• Removed: None

Return and Inspection:

 Added: Employee_ID as a foreign key for the Return and Inspection table

 Removed: Replaced with the Inspection_Date in place of the Return Date

Reservation:

 Added: Customer_ID(FK) and Car_ID(FK) as the foreign keys, StartTime, EndTime, Opt_insurance?

• Removed: None

Rental_Mart: Renamed the "Location" entity to "Rental_Mart" to make it sound more logical

Added: Contact No, Email Address

• Removed: None

Support:

Added: Reservation_ID(FK1), Customer_ID(FK2),
 Employee_ID(FK3) as the foreign keys for the Support table, Support Type, Support Status

• Removed: None

