**IE6700 DATA MANAGEMENT FOR ANALYTICS**

**Project Title: “PARKeasy: Parking Management System”**

**Milestone: Logical (Relational) Model**

**Group 10**

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**Logical (Relational) model of PARKeasy: Parking Management System**

-Admin (AdminID, Name, Address, Email, PhoneNo, Username)

PK: AdminID

FK: Username refers to Login – Not NULL

-ParkingLot (LotID, Name, Location, Capacity)

PK: LotID

-Manage (AdminID, LotID)

FK: AdminID refers to Admin – Not NULL

LotID refers to ParkingLot – Not NULL

-Includes (SlotID, LotID)

FK: SlotID refers to ParkingSlot – Not NULL

LotID refers to ParkingLot – Not NULL

-ParkingSlot (SlotID, Status, Price, Type)

PK: SlotID

-Booking (BookingID, Date, StartTime, EndTime, Status, TransactionID, SlotID)

PK: BookingID

FK: TransactionID refers to Payment – Not NULL

SlotID refers to ParkingSlot – Not NULL

-Login (Username, Password)

PK: Username

-Vehicle (VehicleNumber, Make, Color, VehicleType, MemberID, BookingID)

PK: VehicleNumber

FK: MemberID refers to Member – Not NULL

BookingID refers to Booking – Not NULL

-Member (MemberID, PhoneNo, Email, Address, Name, MembershipID, Username)

PK: MemberID

FK: MembershipID refers to Membership – NULL Allowed

Username refers to Login- Not NULL

-Membership (MembershipID, Name, StartDate, EndDate, Status, DiscountID)

PK: MembershipID

FK: DiscountID refers to Discount – NULL Allowed

-Discount (DiscountID, Status, Description, Percentage)

PK: DiscountID

-Payment (TransactionID, Date, Time, PaymentStatus, Amount, MemberID)

PK: TransactionID

FK: MemberID refers to Member – Not NULL

-Incident (IncidentID, ResolutionStatus, Date\_Time, Description, MemberID)

PK: IncidentID

FK: MemberID refers to Member – NULL Allowed

-Inspect (IncidentID, AdminID)

FK: IncidentID refers to Incident – Not NULL

AdminID refers to Admin – Not NULL

-Report (IncidentID, MemberID)

FK: IncidentID refers to Incident – Not NULL

MemberID refers to Member – Not NULL