Entities and Attributes:

Entity: Customer; Attributes listed below:

CustomerID (Primary key)

FirstName

LastName

CompanyName

Phone #

Email

Address

DateOfBirth

IdentityVerified

VendorID (foreign key)

Entity: Spaceship; Attributes listed below:

SpaceshipID (Primary key)

Serial #

VendorID (foreign key)

InvoiceID (foreign key)

Make

Model

Model Year

Condition

Modifications

SalePrice

LastMaintenanceDate

Entity: Order; Attributes listed below:

OrderID (Primary key)

InvoiceID (foreign key)

CustomerID (foreign key)

SpaceshipID (foreign key)

OrderDateTime

Destination

OrderStatus

DiscountApplied

TotalAmount

PaymentID (foreign key)

PartsID (foreign key)

Entity: Payment; Attributes listed below:

PaymentID (Primary key)

InvoiceID (foreign key)

VendorID (foreign key)

OrderID (foreign key)

PaymentMethod

TotalAmount

PaymentDateTime

TransactionID

PaymentStatus

Currency

CustomerID

Entity: Employee; Attributes listed below:

EmployeeID (Primary key)

EmployeeFullName

EmployeeFirstName

EmployeeLastName

EmployeeRole

EmployeeHireDate

EmployeeDepartment

SupervisorID (lookup column for EmployeeID that displays EmployeeFullName)

EmployeeStatus

Salary

Entity: Parts; Attributes listed below:

PartID (Primary key)

QuantityInStock

UnitPrice

PartName

PartDescription

Manufacturer

WarrantyExpirationDate

PartNumber

SpaceshipID (foreign key)

DateInstalled

PartStatus

Entity: Maintenance Request; Attributes listed below:

MaintenanceRequestID (Primary key)

SpaceshipID (foreign key)

PartsID (foreign key)

RequestedBy (lookup column for EmployeeID that displays EmployeeFullName)

RequestDate

RequestType (Job Code / Inspection)

RequestDescription

PriorityLevel

RequestStatus

CompletionDate

Entity: Finance Request; Attributes listed below:

FinanceRequestID (Primary key)

SpaceshipID

RequestedBy (lookup column for EmployeeID that displays EmployeeFullName)

RequestDate

FinancedAmount

ApprovedBy (lookup column for EmployeeID that displays EmployeeFullName)

ApprovalDate

RequestType

RequestNotes

ApprovalStatus

Entity: Invoice; Attributes listed below:

InvoiceID (Primary key)

InvoiceDateTime

InvoiceAmount

TaxAmount

TotalAmount

Currency

VendorID (foreign key)

CustomerID (foreign key)

OrderID (foreign key)

PaymentID (foreign key)

InvoicePaymentStatus

InvoicePaymentDate

DueDate

DateRecieved

ApprovedBy (lookup column for EmployeeID that displays EmployeeFullName)

VendorInvoiceNumber

Entity: Vendor; Attributes listed below:

VendorID (primary key)

VendorName

VendorContact

PhoneNumber

Address

VendorType

Status

Rating

Relationships:

CUSTOMER one to many ORDER : places

CUSTOMER one to many INVOICE : receives

CUSTOMER many to one VENDOR : linked\_to

SPACESHIP one to many ORDER : sold\_in

SPACESHIP one to many PARTS : contains

SPACESHIP one to many MAINTENANCEREQUEST : has

SPACESHIP many to one VENDOR : supplied\_by

ORDER one to one INVOICE : billed\_on

ORDER one to one PAYMENT : paid\_by

ORDER one to many PARTS : may\_use

PAYMENT many to one VENDOR : sent\_to

PAYMENT many to one INVOICE : paid\_for

INVOICE many to one VENDOR : issued\_by

INVOICE many to one EMPLOYEE : approved\_by

MAINTENANCEREQUEST many to one EMPLOYEE : requested\_by

FINANCEREQUEST many to one CUSTOMER : requested\_by

FINANCEREQUEST many to one EMPLOYEE : approved\_by

EMPLOYEE many to one EMPLOYEE : supervised\_by

ER Diagram:

The following page contains our initial ER diagram.

A black screen with white text

AI-generated content may be incorrect.