

Databases Assignment 2

Total and partial participation for all ER elements :

Total	Partial
Employees (M) works for Departments (1) (Total)	Departments (M) work on Cars (M)
Booking (1) (Total) manages Location (1)	Customer (1) rents Car (1)
Transication (M) bills Customer (M) (Total)	Employees (1) services Customer (1)

Cardinalities have been addressed in the diagram (6-8)

Cardinalities

- 1) Employees (M) works for Departments (1)
- 2) Departments (M) work on Cars (M)
- 3) Booking (1) manages Location (1)
- 4) Customer (1) rents Car (1)
- 5) Employees (1) services Customer (1)
- 6) Transication (M) bills Customer (M)

Diagram captures all necessary attributes for DBMS

Multivalued attributes:

- Employee Info
- Customer Info
- Car Info
- Department Info

Composite attributes:

- Customer Address
- Location Address
- Vehicle Info
- Transaction Receipt

Diagram captures all keys (primary or foreign)

Primary	Foreign
Booking	Reports
Customer	Cars

Diagram captures all entities necessary to satisfy DBMS solution

- 1) Employees
- 2) Customers
- 3) Cars
- 4) Locations

DBMS has more than 5 entities (so 6)

Entities

- 1) Employees
- 2) Departments
- 3) Customers
- 4) Cars
- 5) Locations
- 6) Bookings
- 7) Transactions
- 8) Reports

Has a minimum of 5 relationships and all of its necessary information

Relationships

- 1) Cars and department
- 2) Employee and department
- 3) Location and bookings
- 4) Customers and Cars
- 5) Customers and employees
- 6) Customers and transaction