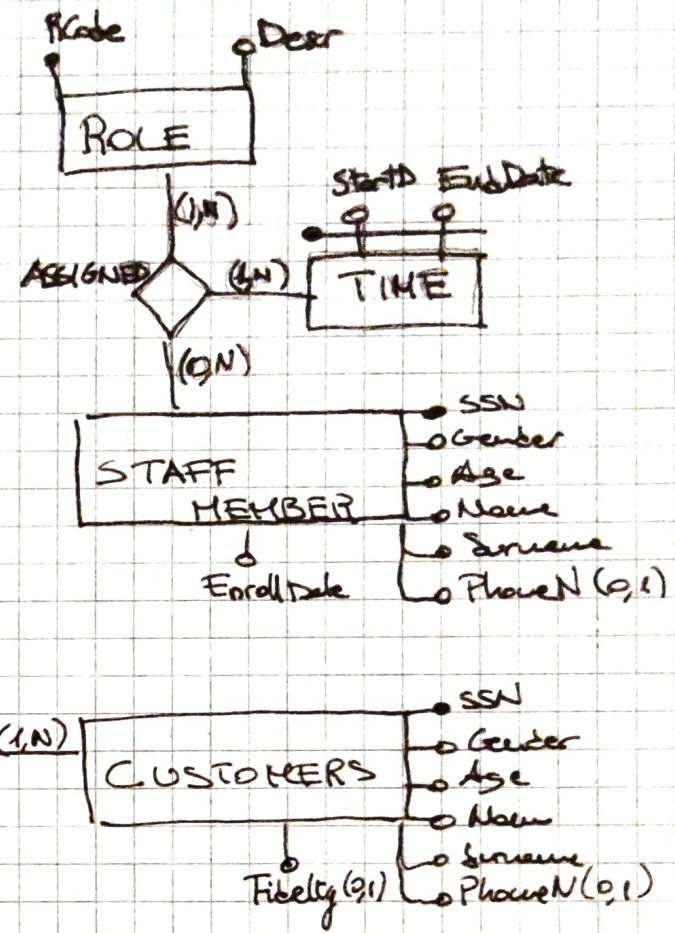
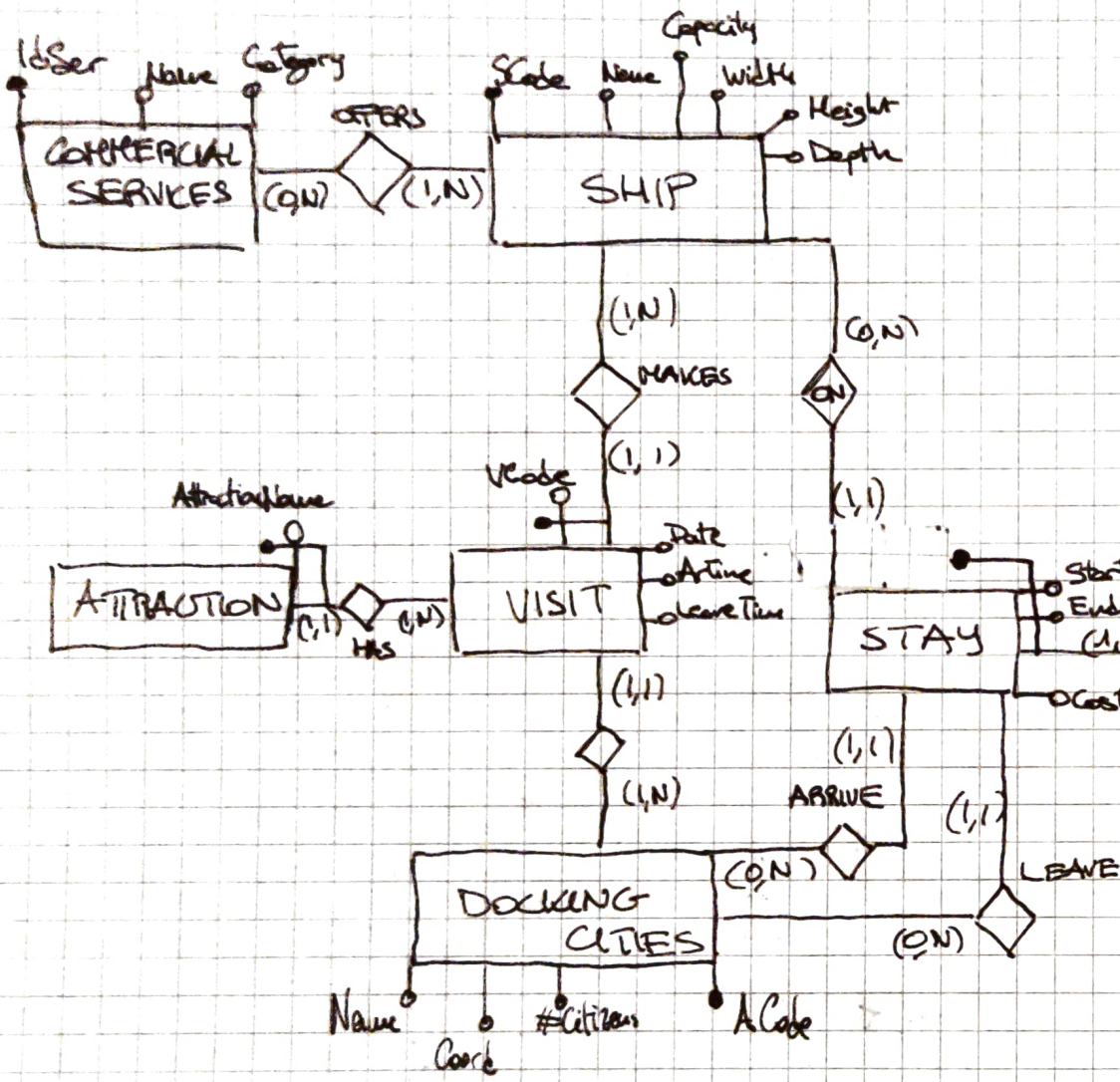


E-R SCHEMA



NORMALIZED E-R

--Normalized Logical Schema:

SHIP (SCode, Name, Capacity, Width, Height, Depth)

OFFERS (SCode, IdSer)

COMMERCIAL_SERVICES (IdSer, Name, Category)

VISIT (SCode, Vcode, Date, Artime, LeaTime)

ATTRACTIONS (SCode, VCode, AttractionName)

DOCKING_CITIES (ACode, Coord, Name, Abitants)

STAFF_MEMBER (SSN, Name, Surname, Age, Gender, PhoneN*, Enrollment)

ROLE (RCode, Description)

TIME (StartDate, EndDate)

ASSIGNED (SSN, RCode, StartDate, EndDate)

COSTUMER (SSN, Name, Surname, Age, Gender, PhoneN*, FidelityCard*)

STAY (SSN, StartDate, EndDate, SCode, Cost, ACode, ACode)

--Referential integrity constraints:

Relation "OFFERS" (FOREIGN KEY (SCode)
REFERENCES SHIP (SCode)
FOREIGN KEY (IdSer)
REFERENCES COMMERCIAL_SERVICES (IdSer))

Relation "STAY" (FOREIGN KEY(SSN)
REFERENCES COSTUMER (SSN)
FOREIGN KEY(SCode)
REFERENCES SHIP(SCode)
FOREIGN KEY(ACode,ACode)
REFERENCES DOCKING_CITIES(ACode))

Relation "ATTRACTIONS" (FOREIGN KEY(SCode)
REFERENCES SHIP(SCode)
FOREIGN KEY(VCode)
REFERENCES VISIT(VCode)

)