

Participation 9/30

Monday, September 30, 2024

1:20 PM

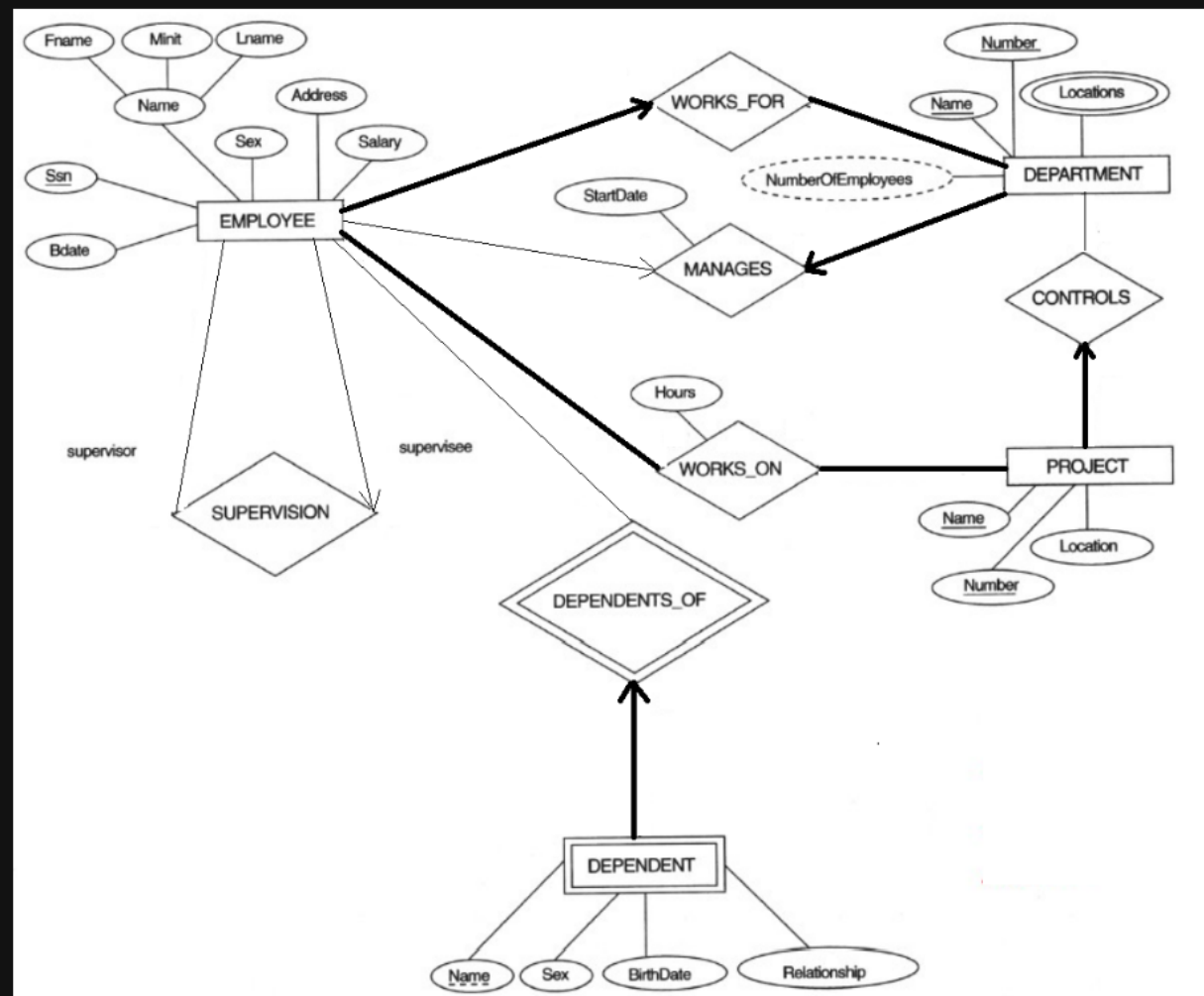
Joon Song (JS3040)

Tom Simon (TS1038)

Transform the following diagram into a relational database schema.

No need to provide domain constraints.

Do not use merge rule.



Employee (SSN: varchar(11) primary key, Bdate: date, Fname: varchar(20), Minit: varchar(2), Lname: varchar(20), Address: varchar(50), Sex: varchar(20), salary: int)

Department (Number: int primary key, Name: varchar(15),^{primary key} Locations: varchar(20))

Project (Name: varchar(30), Number: int, Location: varchar(20), primary key (Name, Number))

Works_on (Name: varchar(30), Number: int, SSN: varchar(11), primary key (ssn, name, number), foreign key (name) references Project, foreign key (number) references Project, foreign key (SSN) references employee)

Supervision (SSN: varchar(11), primary key (SSN), foreign key (SSN) references employee)

Manages (SSN: varchar(11), Name: varchar(15), Number: int, primary key (SSN), foreign key (SSN) references Employee, foreign key (Number) references Department, foreign key (Name) references Department)

Works_for (SSN: varchar(11), Number: int, name: varchar(15), primary key (SSN, Name, Number), foreign key (SSN) references employee, foreign key (name, number) references Department)

controls (Name: varchar(15), Name: varchar(30), Number: int, Number: int, primary key (Name, Name, Number, Number), foreign key (Name, Number) references Department, foreign key (Name, Number) references Project)

Dependent (SSN: varchar(11), Name: varchar(20), sex: varchar(20), BirthDate: date, Relationship: varchar(20), primary key (SSN, Name))