

Group Members:

Muhammad Izham Bin Norhamadi, B032020039, BITZ, S2G1

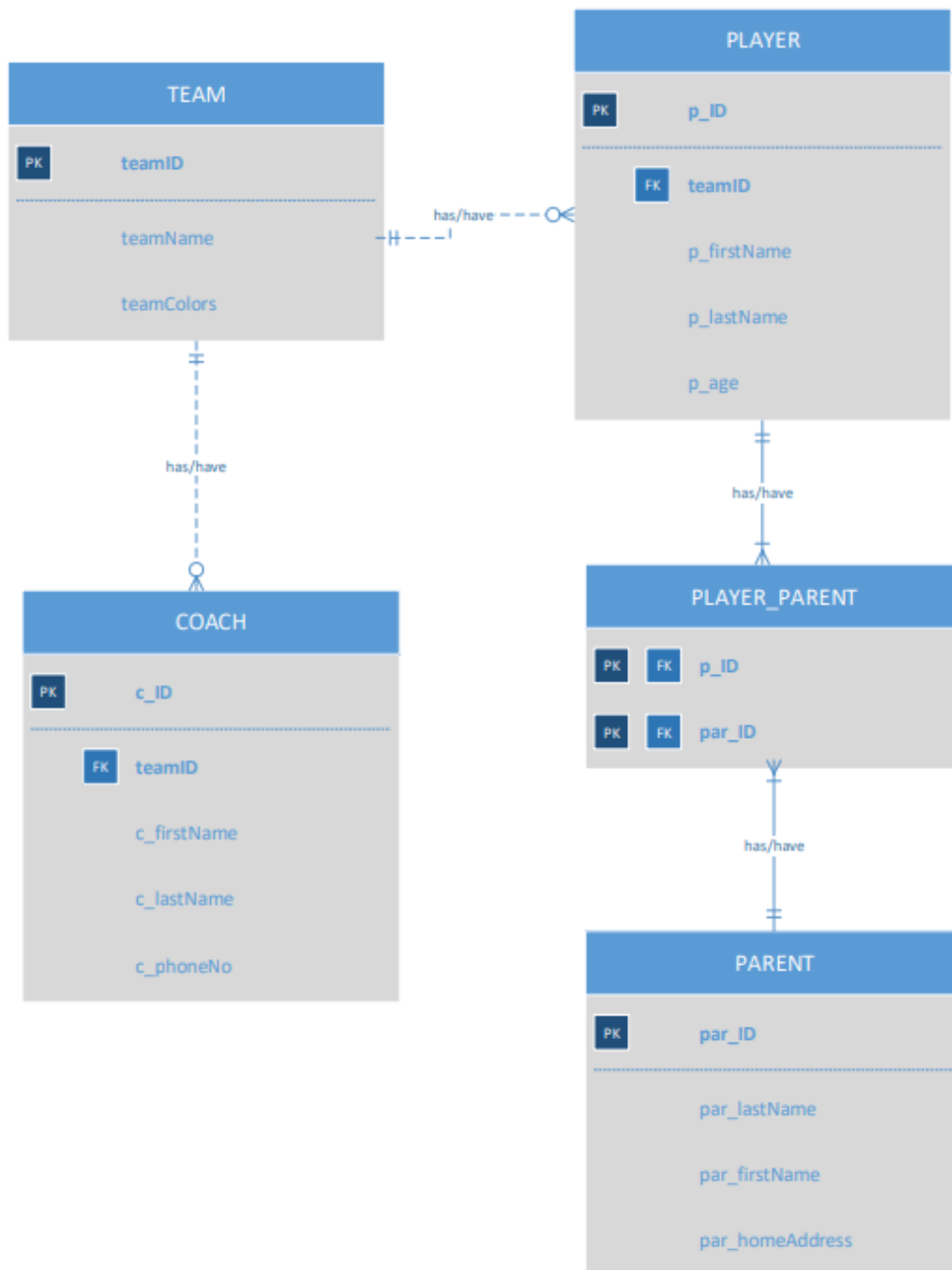
Ahmad Sha Herizam Bin Tahir, B032020009, BITZ, S2G1

Affendy Elyas Bin Azhari Sharidan, B032020024, BITZ, S2G1

Muhamad Nur Haziq Bin Ainorazahar, B032020034, BITC, S2G1

Question 1

Entity	Relationship	Connectivity	Entity
TEAM	Has/have	0:M	PLAYER
PLAYER	Has/have	1:1	TEAM
TEAM	Has/have	0:M	COACH
COAH	Has/have	1:1	TEAM
PLAYER	Has/have	M:N	PARENT



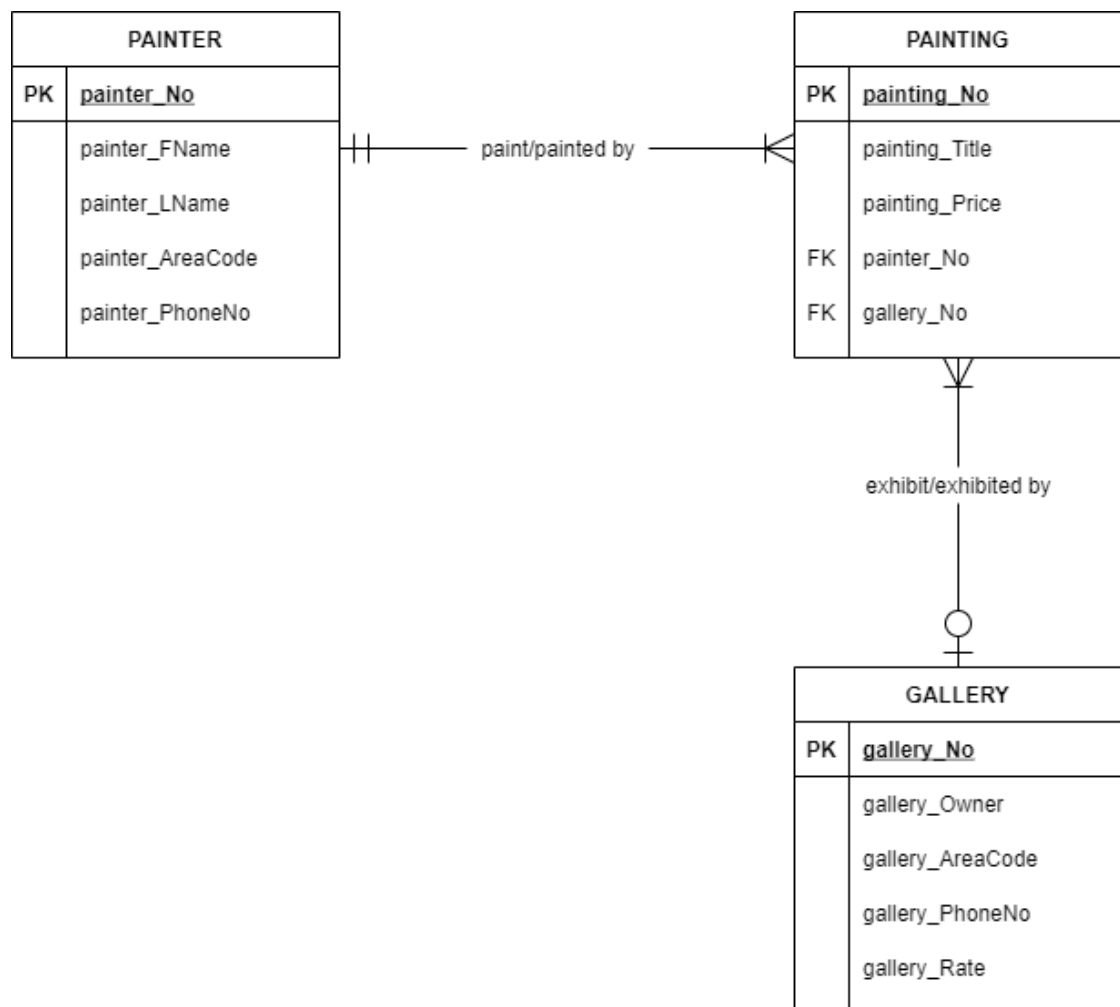
Question 2

Entity	Relationship	Connectivity	Entity
PUBLISHER	Publish	0:M	BOOK
BOOK	Published by	1:1	PUBLISHER
BOOK	Written by	M:N	AUTHOR



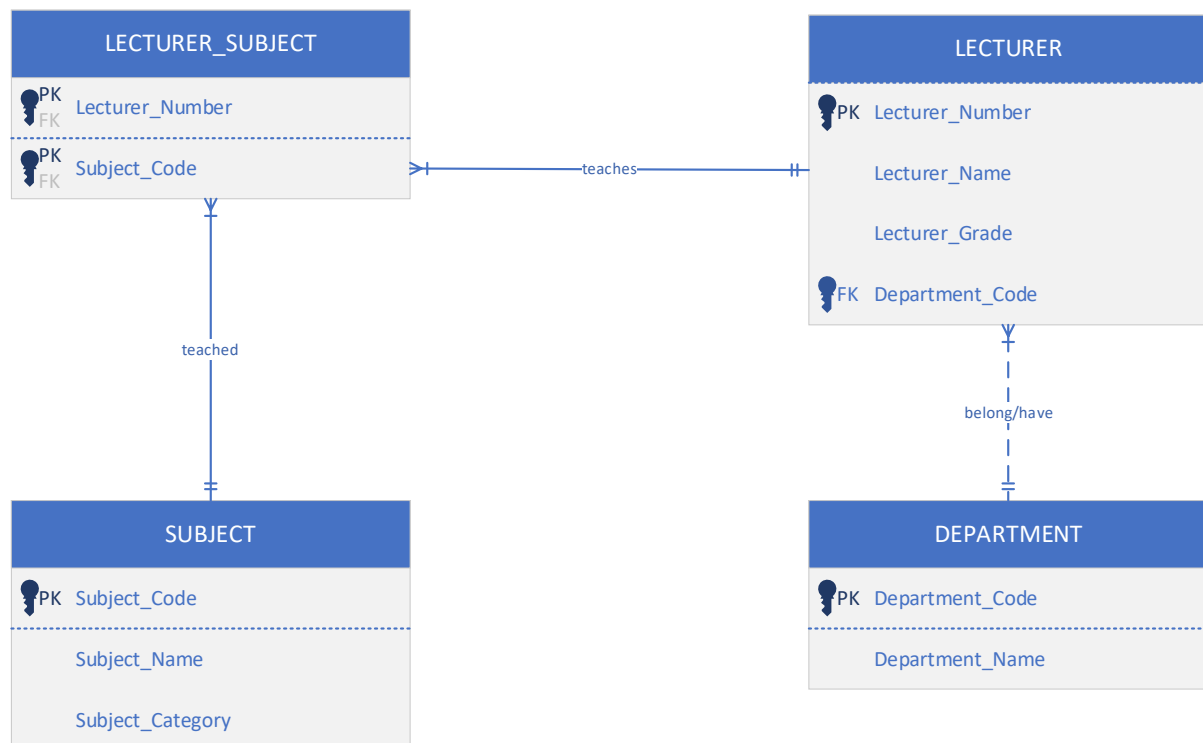
Question 3

Entity	Relationship	Connectivity	Entity
PAINTER	paint	1:M	PAINTING
PAINTING	painted by	1:1	PAINTER
PAINTING	exhibit	0:1	GALLERY
GALLERY	exhibit by	1:M	PAINTING



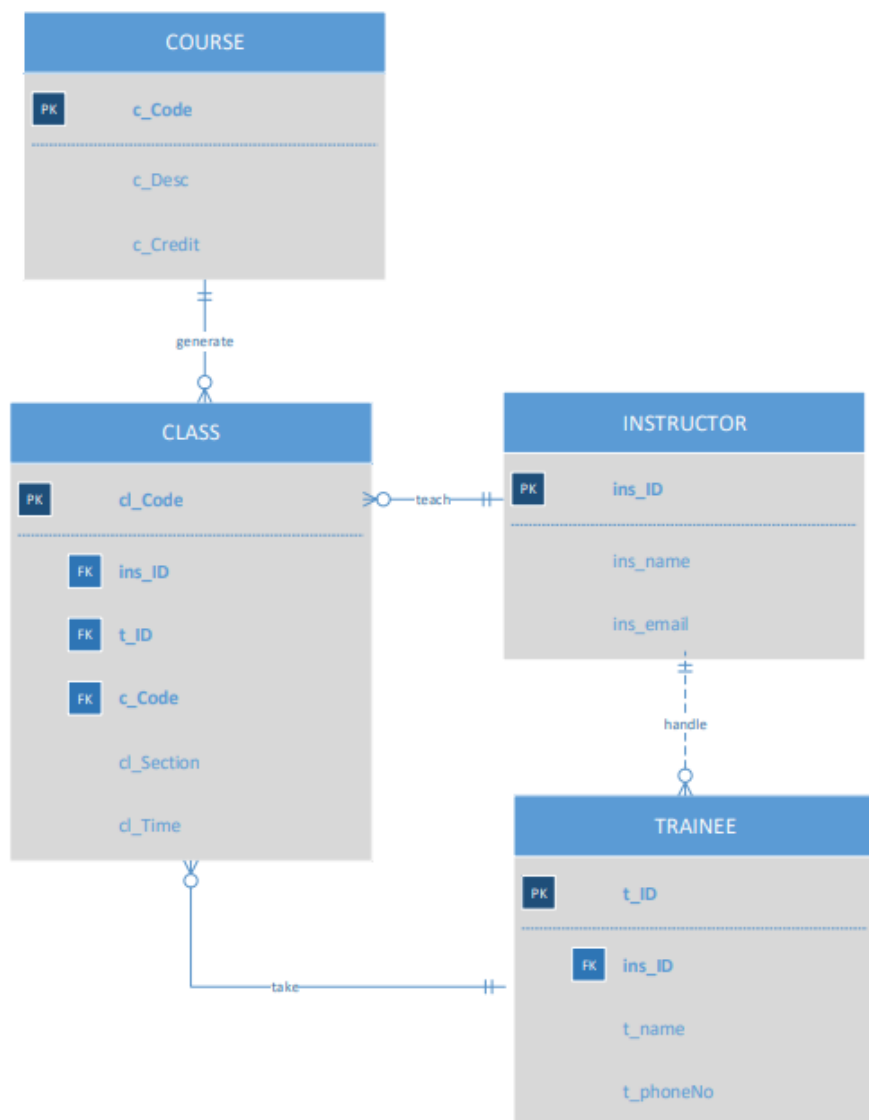
Question 4

Entity	Relationship	Connectivity	Entity
SUBJECT	Taught by	1:M	LECTURER
LECTURER	teaches	1:M	SUBJECT
LECTURER	Belong to	1:1	DEPARTMENT
DEPARTMENT	have	1:M	LECTURER



Question 5

Entity	Relationship	Connectivity	Entity
COURSE	generate	0:M	CLASS
CLASS	generated by	1:1	COURSE
INSTRUCTOR	teach	0:M	CLASS
CLASS	taught by	1:1	INSTRUCTOR
INSTRUCTOR	handle	0:M	TRAINEE
TRAINEE	handled by	1:1	INSTRUCTOR
TRAINEE	take	0:M	CLASS
CLASS	taken by	1:1	TRAINEE

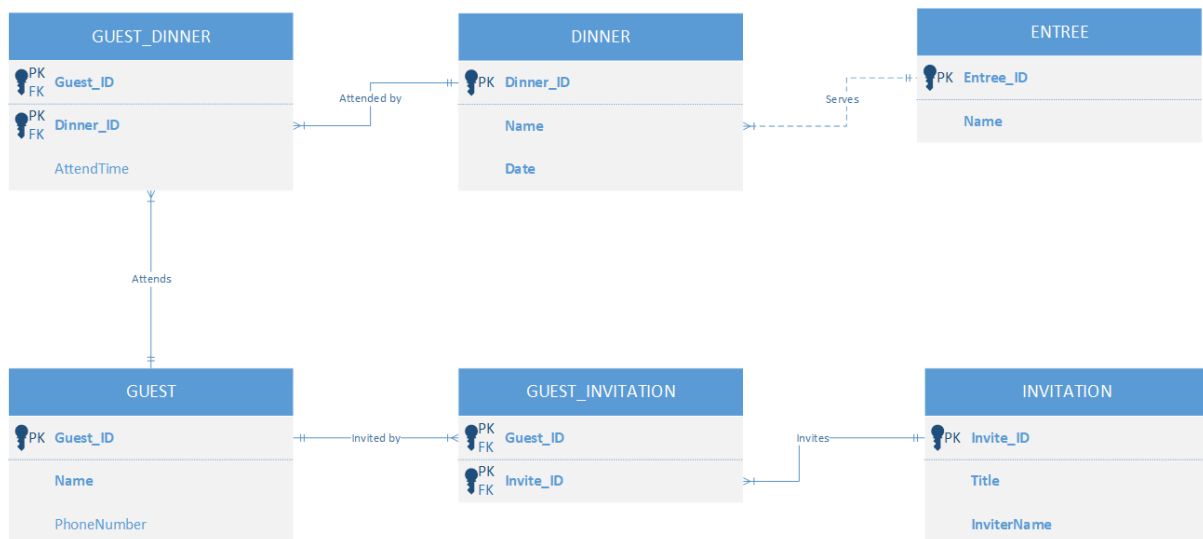


Describe the relationship between instructor and course in terms of connectivity, cardinality, and existence dependence.

Each course can generate several classes which is one class can be taught by one instructor only and instructor can teach up to two classes or assigned to do research. Yes, it is has existence dependence. Instructor entity cannot exist if course entity is not exist too and vice versa because class that instructor teach is being generated by the course entity.

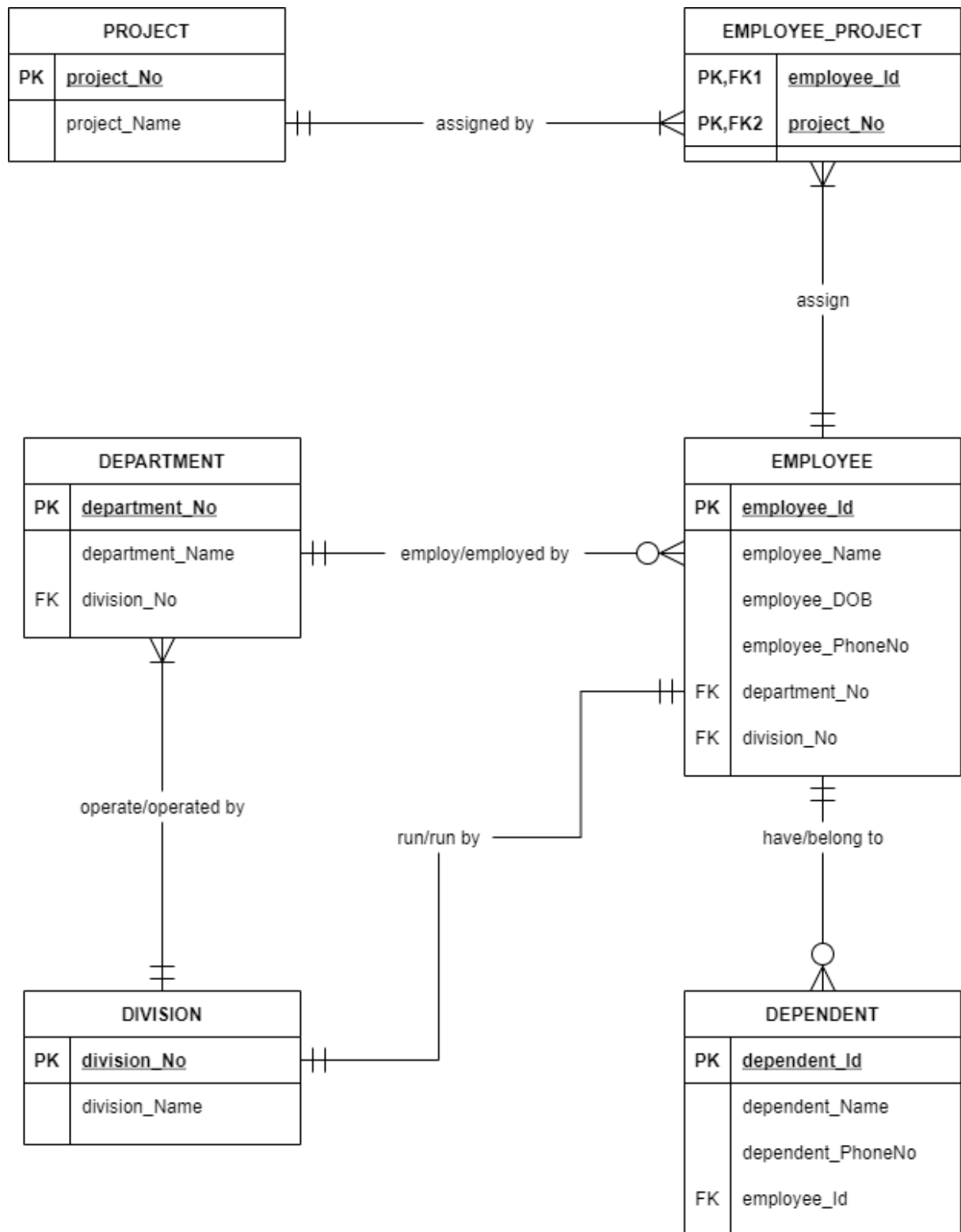
Question 6

Entity	Relationship	Connectivity	Entity
ENTREE	Serves	1:M	DINNER
DINNER	Served with	1:1	ENTREE
DINNER	Attended by	M:N	GUEST
GUEST	Invited by	M:N	INVITATION



Question 7

Entity	Relationship	Connectivity	Entity
PROJECT	assigned by	M:N	EMPLOYEE
EMPLOYEE	assign	M:N	PROJECT
EMPLOYEE	employed by	1:1	DEPARTMENT
EMPLOYEE	run	1:1	DIVISION
EMPLOYEE	have	0:M	DEPENDENT
DEPARTMENT	employed by	0:M	EMPLOYEE
DEPARTMENT	Operated by	1:1	DIVISION
DIVISION	operate	1:M	DEPARTMENT
DIVISION	Run by	1:1	EMPLOYEE
DEPENDENT	Belong to	1:1	EMPLOYEE



Question 8

Entity	Relationship	Connectivity	Entity
BRANCH	register/registered by	1:M	CUSTOMER
CUSTOMER	register/registered by	1:M	BRANCH
BRANCH	Has/have	1:M	STAFF
STAFF	HAS/HAVE	1:M	BRANCH
BRANCH	HAS/HAVE	M:M	VIDEO
VIDEO	HAS/HAVE	M:M	BRANCH
VIDEO	MANAGED BY	M:M	STAFF
STAFF	MANAGE	M:M	VIDEO
CUSTOMER	RENTS/RENTED BY	0:M	RENTAL

