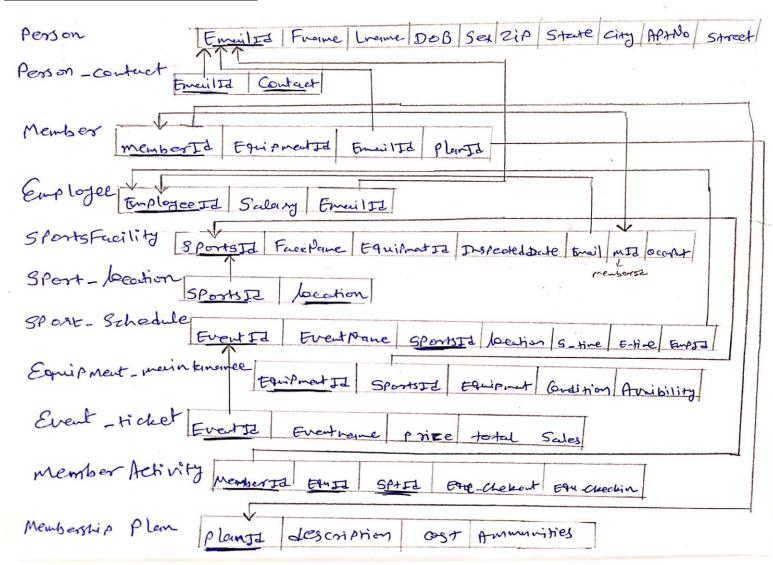
ER to Relational-mapping



Candidate keys and functional dependencies

1)Relation name:Persons

emailId	fname	Iname	DOB	sex	zip	state	city	Appt	street
								no	

candidate keys :email id,

Functional Dependencies: emailId-->fname, emailId-->lname, emailId-->DOB, emailId-->sex, emailId-->zip, emailId-->state, emailId-->city, emailId-->apptNo, emailId-->street

2)Relation name:Person_contact

emailId contact

candidate keys: emailId and contact (both together forms candidate key)

Functional Dependencies: emailId-->contact

3)Relation name: Employee

employeeld	salary	emailld

candidate keys: employeeld

Functional Dependencies: employeeld-->salary, employeeld-->emailId, emailId-->salary

4)Relation name:Member

memberld equipmentld emailld planId

candidate keys: memberId

Functional Dependencies: memberId-->equipmentId, memberId-->emailId,

memberId-->planId, emailId-->planId

5)Relation name:MembershipPlan

<u>planId</u> descri	otion cost	ammunities
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candidate keys: planId

Functional Dependencies: planId-->description, planId-->cost, planId-->ammunities,......

6)Relation name: MemberActivity

memberId	equipmentId	sportId	Equipment-	Equiptment-
			checkout	checkin

candidate keys: no

Functional Dependencies: no

7) Relation name: SportsFacility

sportId	sportName	inspectedDate	emailId	memberId	currentOccupant
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candidate keys: sportId,

Functional Dependencies: sportId-->sportName

8) Relation name: Sport_location

sportId	<u>location</u>
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candidate keys: sportId and location(both together)

Functional Dependencies: sportId-->location

9)Relation name: SportSchedule

evential eventiality sportia location start time End time employeera	<u>eventId</u>	eventName	sportId	location	Start time	End time	employeeld
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candidate keys: eventId

Functional Dependencies: eventId-->eventName, eventId-->sportId, eventId-->location,

eventId-->statTime, eventId-->EndTime, eventId-->employeeId

10)Relation name:EquipmentMaintanence

equipmentId sportId equipment name condition availability	
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candidate keys : equipmentId

Functional Dependencies: equipmentId-->sportId, equipmentId-->equipmentName,

equipmentId--> condition, quiptmentId-->availability

11)Relation name:EventTicketSales

eventId even	t name price	total	sales
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candidate keys: eventId

Functional Dependencies: eventId--> eventName, eventId--> price, eventId--> total, eventId-->sales