

Assignment 1

Jiaxi Zhang

February 9, 2025

Author: [Jiaxi Zhang]

Assignment: HW1

Date due: Feb 09, 11:59pm

I pledge that I have completed this assignment without collaborating with anyone else, in conformance with the NYU School of Engineering Policies and Procedures on Academic Misconduct.

1 RS1

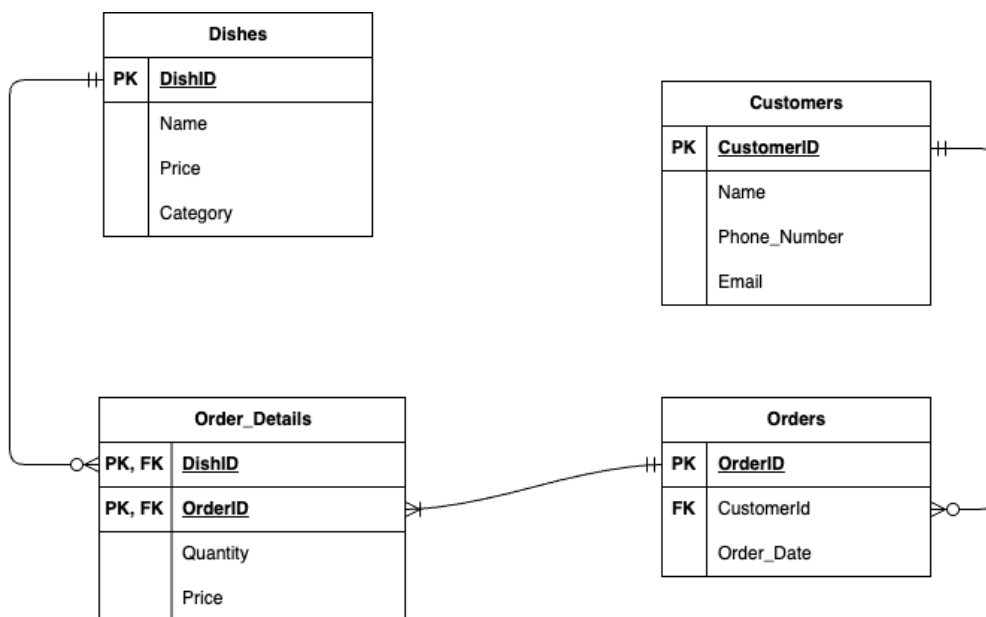


Figure 1: RS1

1.1 RM

customers(customerID, name, phone.number, email)

orders(orderID, @customerID, order.date)

dishes(dishID, name, price,category)

order_details(@dishID, @orderID, quantity, price)

2 RS2

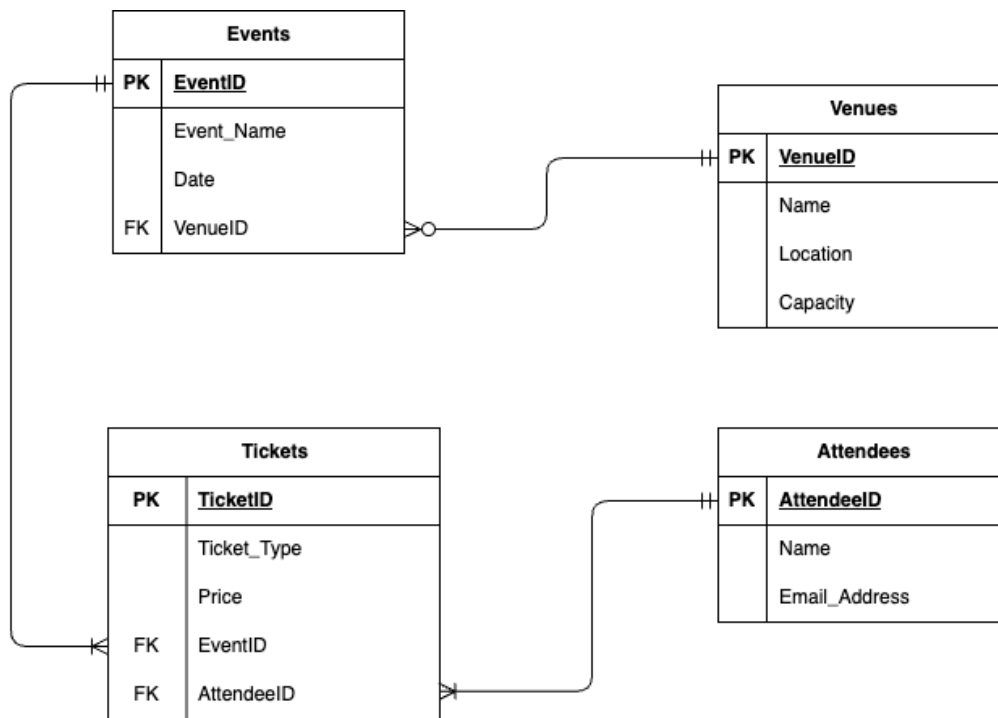


Figure 2: RS2

2.1 RM

events(eventID, event_name, date, @venueID)
venues(venueID, name, location, capacity)
attendees(@attendeeID, name, email_address)
tickets(ticketID, @eventID, @attendeeID, price, ticket_type)

3 RS3

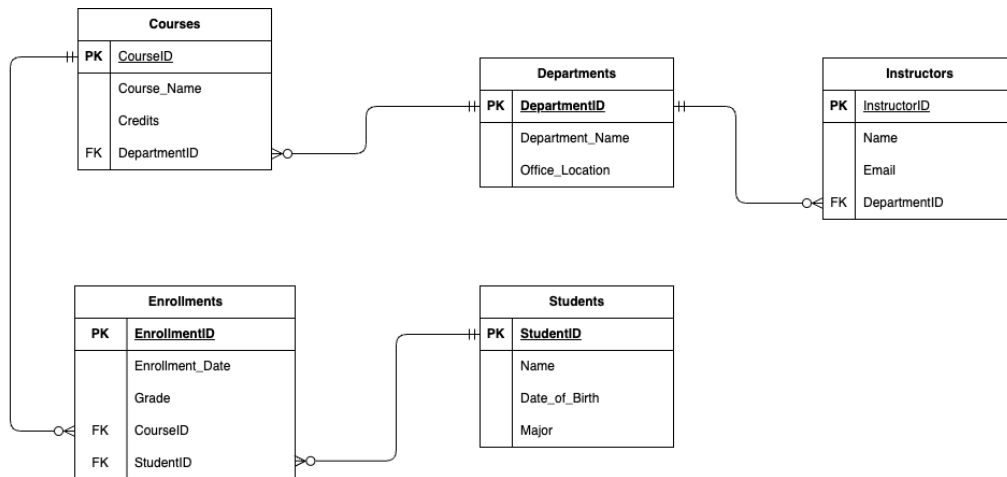


Figure 3: RS3

3.1 RM

students(studentID, name, date_of_birth, major)

courses(courseID, course_name, credits, @departmentID)

departments(departmentID, department_name, office_location)

enrollments(enrollmentID, @studentID, @courseID, grade, enrollment_date)

instructors(instructorID, name, email, @departmentID)

4 RS4

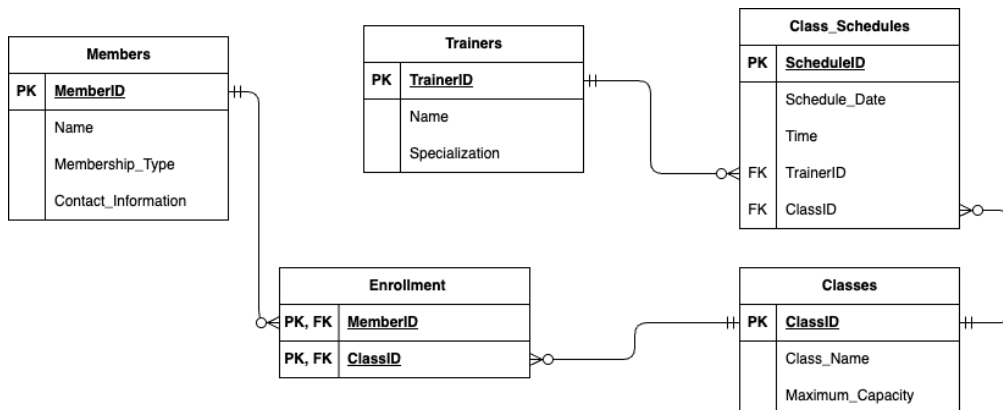


Figure 4: RS4

4.1 RM

members(memberID, name, membership_type, contact_info)

classes(classID, class_name, maximum_capacity)

enrollment(@memberID, @classID)

trainers(trainerID, name, specializations)

class_schedules(scheduleID, @classID, @trainerID, schedule_date, time)