

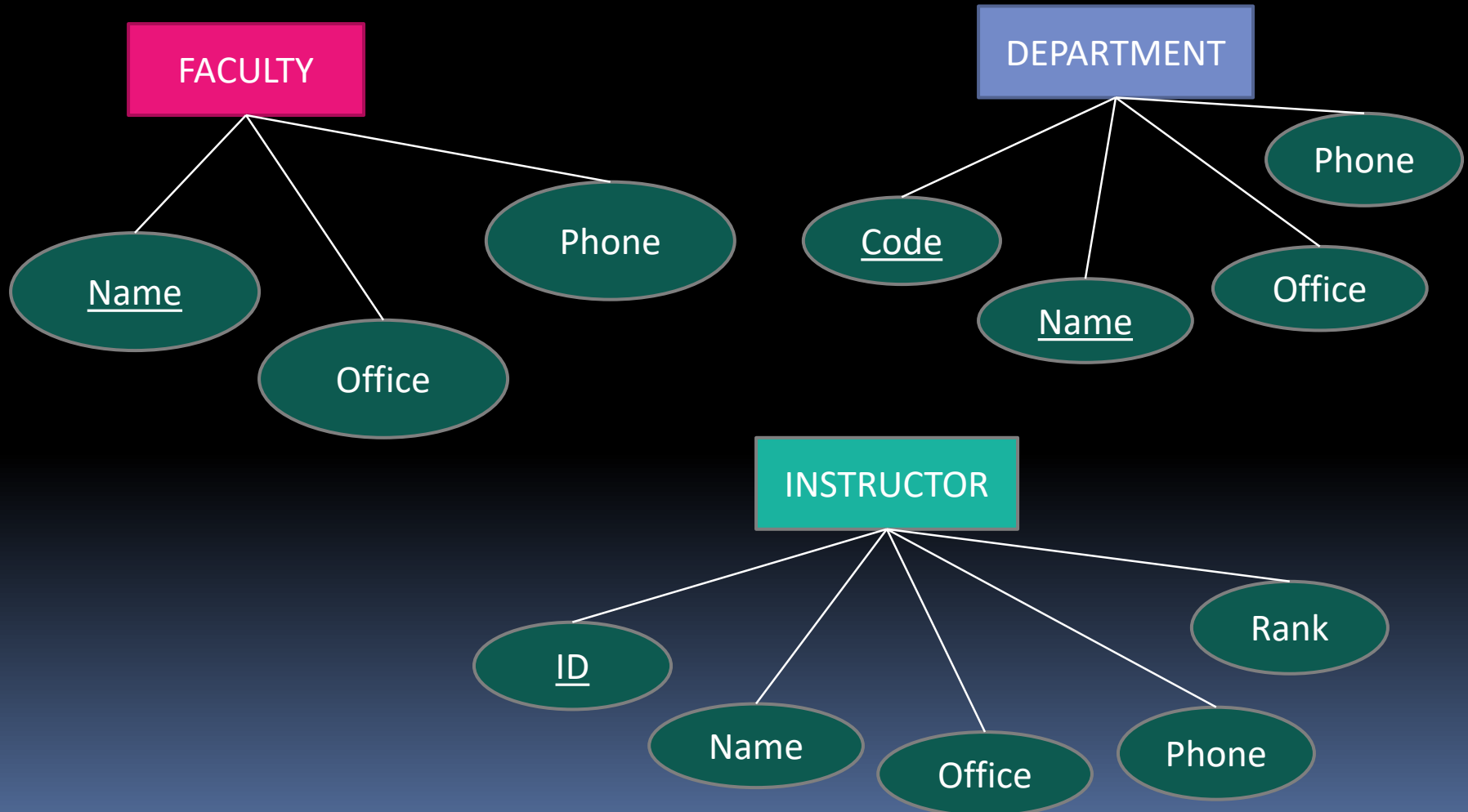
**BT2102**  
**ASSIGNMENT 1**

**GROUP XX**

**GROUP\_MEMBER\_NAME\_1**  
**GROUP\_MEMBER\_NAME\_2**  
**GROUP\_MEMBER\_NAME\_3**  
**GROUP\_MEMBER\_NAME\_4**

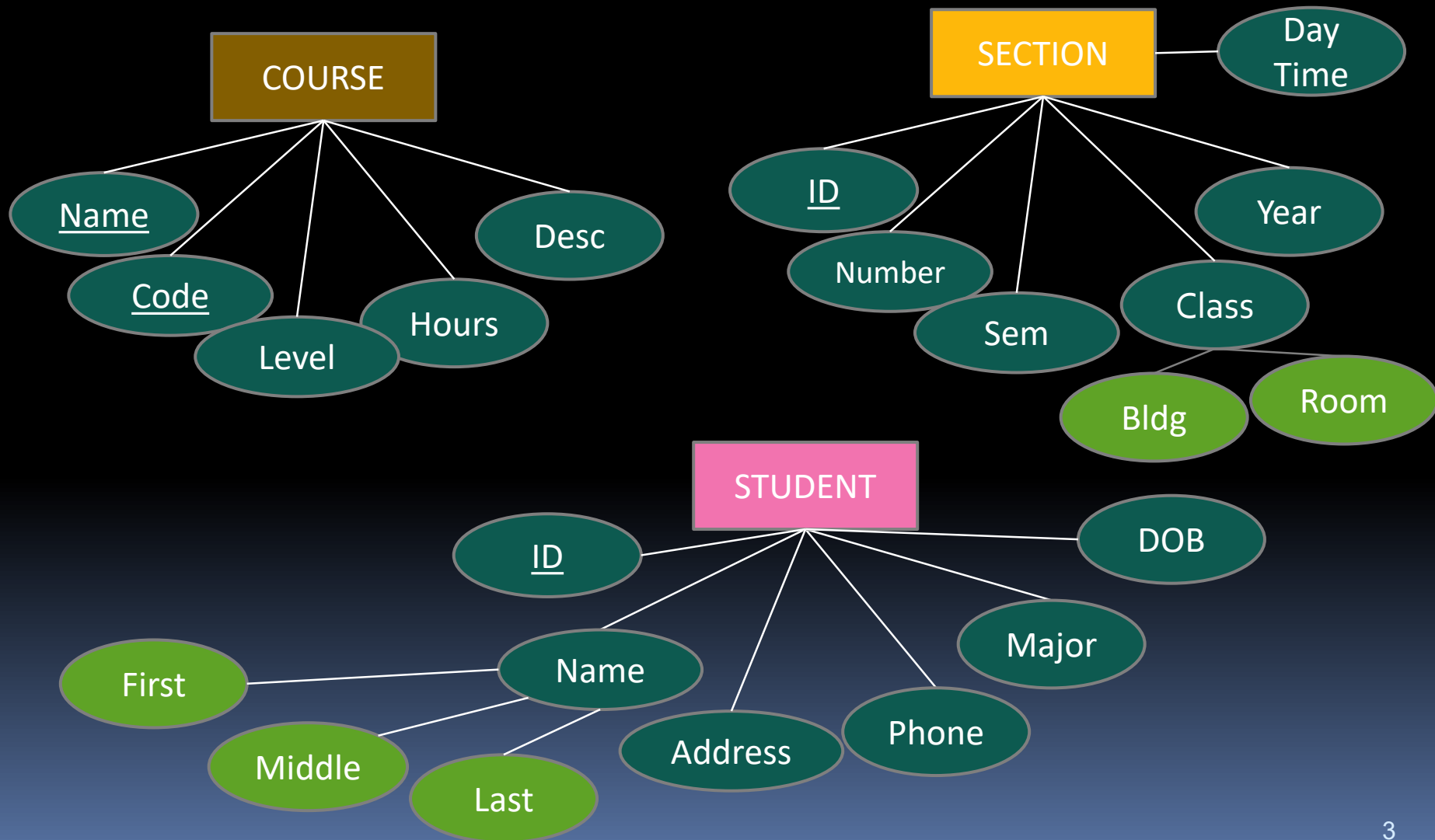
# The Final Entities and Attributes:

## Faculty, Department, Instructor



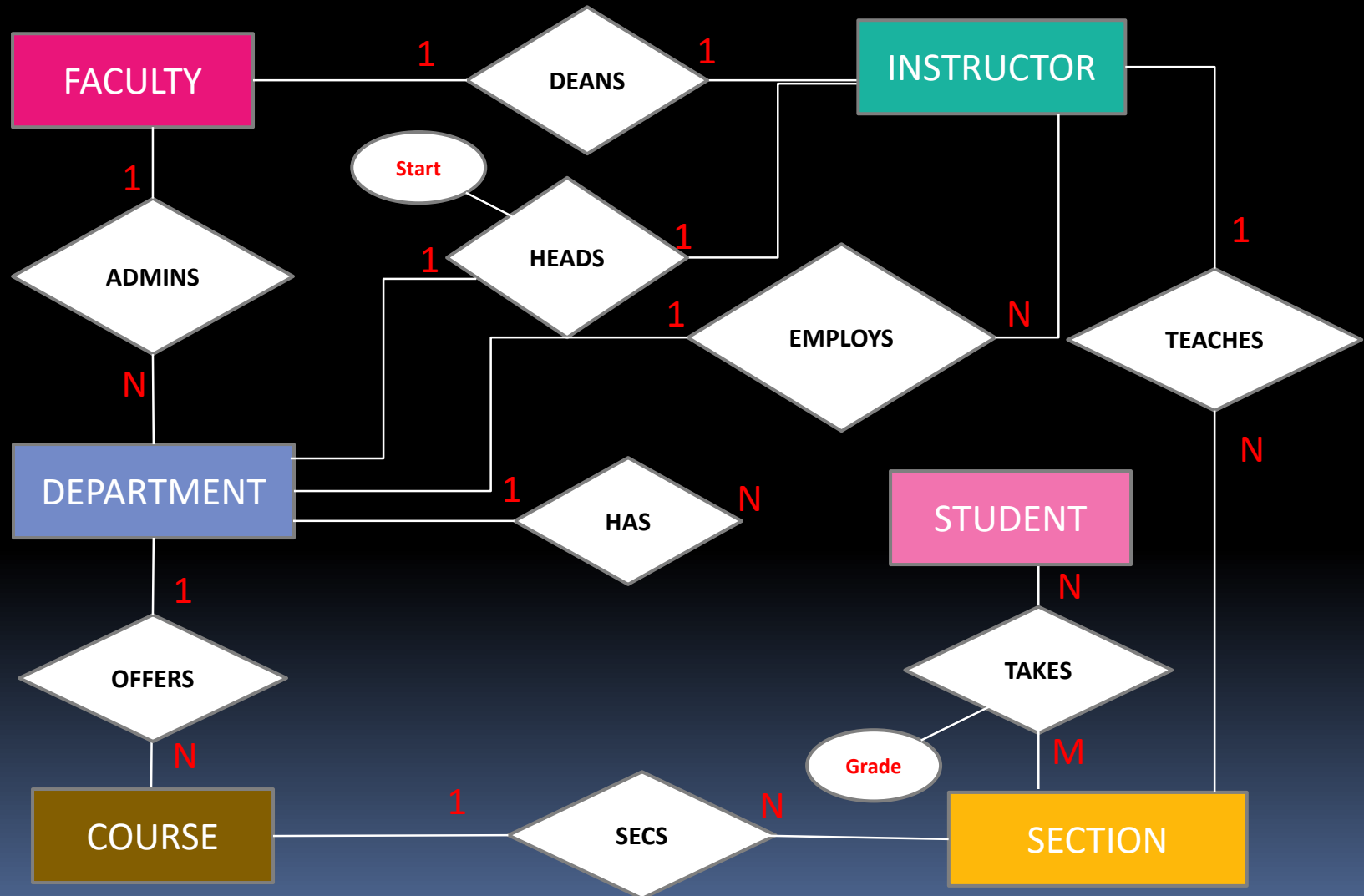
# The Final Entities and Attributes:

## Course, Section, Student



# The Final Conceptual Data Model

(to include Participation constraints where appropriate)



# The Final Logical Schema

Faculty (Name, Office, Phone, InstructorID)  
Instructor (ID, Name, Office, Phone, Rank, DeptCode)  
Department (Code, Name, Office, Phone, FacName, InstructorID, Start)  
Student (ID, First, Middle, Last, Major, Address, Phone, DOB, DeptCode)  
Section (ID, Number, Sem, DayTime, Year, CourseCode, InstructorID, ClassID)  
Class(ClassID, Bldg, Room)  
Course (Code, Name, Level, Hours, Desc, DeptCode)  
Takes (StudentID, SectionID, Grade)

# The Final Logical Data Model

Faculty (name, office, phone, instructorId) <b>Primary Key</b> name <b>Foreign Key</b> instructorId references Instructor(id)	Instructor (id, name, office, phone, rank, deptCode) <b>Primary Key</b> id <b>Foreign Key</b> deptCode references Department(code)
Department (code, name, office, phone, facName, instructorID, start) <b>Primary Key</b> code <b>Foreign Key</b> facName references Faculty(name) <b>Foreign Key</b> instructorId references Instructor(id)	Student (id, first, middle, last, major, address, phone, dob, deptCode) <b>Primary Key</b> id <b>Foreign Key</b> deptCode references Department(code)
Section (id, number, sem, dayTime, year, courseCode, instructorId, classId) <b>Primary Key</b> id <b>Foreign Key</b> courseCode references Course(code) <b>Foreign Key</b> instructorId references Instructor(id) <b>Foreign Key</b> classId references Class(classId)	Class(classId, bldg, room) <b>Primary Key</b> classId
Course (code, name, level, hours, desc, deptCode) <b>Primary Key</b> code <b>Foreign Key</b> deptCode references Department(code)	Takes (studentId, sectionId, grade) <b>Primary Key</b> studentId, sectionId