

lab #1

Task 1.1.

- 1) {EmpId}
- 2) {SSN}
- 3) {Email}
- 4) {SSN, Phone}
- 5) {EmpId, Email}
- 6) {Email, Name}

- 2) 1) EmpId
- 2) SSN
- 3) Email

5) I would choose empId as the p.k.

4) I think yes, if they will write home phone number

1) m.p.k. is {Student Id, Course Code, Semester, Year}

- 2) 1) Student Id identifies which student
- 2) Course code identifies which course
- 3) section: Necessary because a course can have multiple section (lecture, lab) in the same semester
- 4) Semester & Year: Necessary because a student can retake the same course in a future term.

Task 1.2.

Student

Student ID	Name	Email	Major	advisor ID
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Professor

Prof ID	Name	Department	Salary
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Course

Course ID	Title	Credits	Department Code
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Department

Dept Code	Dept Name	Budget	Chair ID
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Enrollment

Student ID	Course ID	Semester	Grade
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Student. Advisor ID → Professor. Prof ID  
 Department. Chair ID → Professor. Prof ID  
 Enrollment. Student ID → Student. Student ID  
 Enrollment. Course ID → Course. Course ID  
 Course. Department Code → Department. Dept Code.



## Part 2

1)

patient  $\rightarrow$  strong

Doctor  $\rightarrow$  strong

Department  $\rightarrow$  strong

Appointment  $\rightarrow$  weak

Prescription  $\rightarrow$  weak

Room  $\rightarrow$  strong

Phone  $\rightarrow$  weak

2)

Order ID  $\rightarrow$  weak

Product ID  $\rightarrow$  weak.

Order : product  $\rightarrow$  M:N.

Doctor	
DoctorID	894355
Name	Olzhas
Phone	8 747 898 09 51

Patient	
PatientID	031138
Name	Aidos
Birthdate	07.12.1995

Phone	
PatientID	031138
PhoneNumber	8 747 434 31 67

Appointment	
PatientID	031138
DoctorID	894355
DateTime	12.09.2025

Room	
RoomNumber	403
DeptCode	772134

Department	
DeptCode	772134
Name	main
Location	tole-bi 59

Prescription	
PatientID	031138
DoctorID	894355
Medication	Paracetamol



