**RELATIONAL MODEL**

Write the relational database model equivalents of the ER diagrams.

**EXAM**

Exam\_ID

Time

**ROOM**

Room\_number

Capacity

Building

in

for

**COURSE**

Course\_number Course\_name

Department

**SECTION**

Section\_number Enrollment

section of

**Figure 1.** An ER diagram

Answer:

EXAM(Exam\_ID,Time)

SECTION(Section\_number,Enrollment)

ROOM(Room\_number,Capacity,building)

COURSE(Course\_number,course\_name,department)

Analyze how the data shown on this form could be represented in relational model.

Table 1

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Temerloh Medical Centre  Patient Medication Form | | | | | | | |
| Patient Number: P10034 | | | | | | | |
|  | Full Name | : Mohammed Zaki | |  | Ward Number | : Ward 11 | |
|  | Bed Number | : 84 | |  | Ward Name | : Orthopaedic | |
| Drug Number | Name | Description | Dosage | Method of Admin | Units per Day | Start Date | Finish Date |
| 10223 | Morphine | Pain Killer | 10mg/ml | Oral | 50 | 24/03/96 | 24/04/96 |
| 10334 | Tetracyclene | Antibiotic | 0.5mg/ml | IV | 10 | 24/03/96 | 17/04/96 |
| 10223 | Morphine | Pain Killer | 10mg/ml | Oral | 10 | 25/04/96 | 02/05/96 |

PK FK

Answer:

**PATIENT**(Pat\_num,Pat\_name,Ward\_name)

**WARD**(Ward\_num,Ward\_name,Bed\_name)

**DRUG**(Drug\_no,Drug\_name,Description,Dosage,MethodOfAdmin,UnitsperDay,StartDate,FinishDate)

FUNCTIONAL DEPENDENCY:

Pat\_num Pat\_name,ward\_num

Ward\_num Ward\_name,bed\_num

Drug\_num Drug\_Name,description,dosage,MethodOfAdm,Unitsperday, StarDate,FinishDate