UNIVERSITY OF WESTMINSTER

5COSC020W DATABASE SYSTEMS

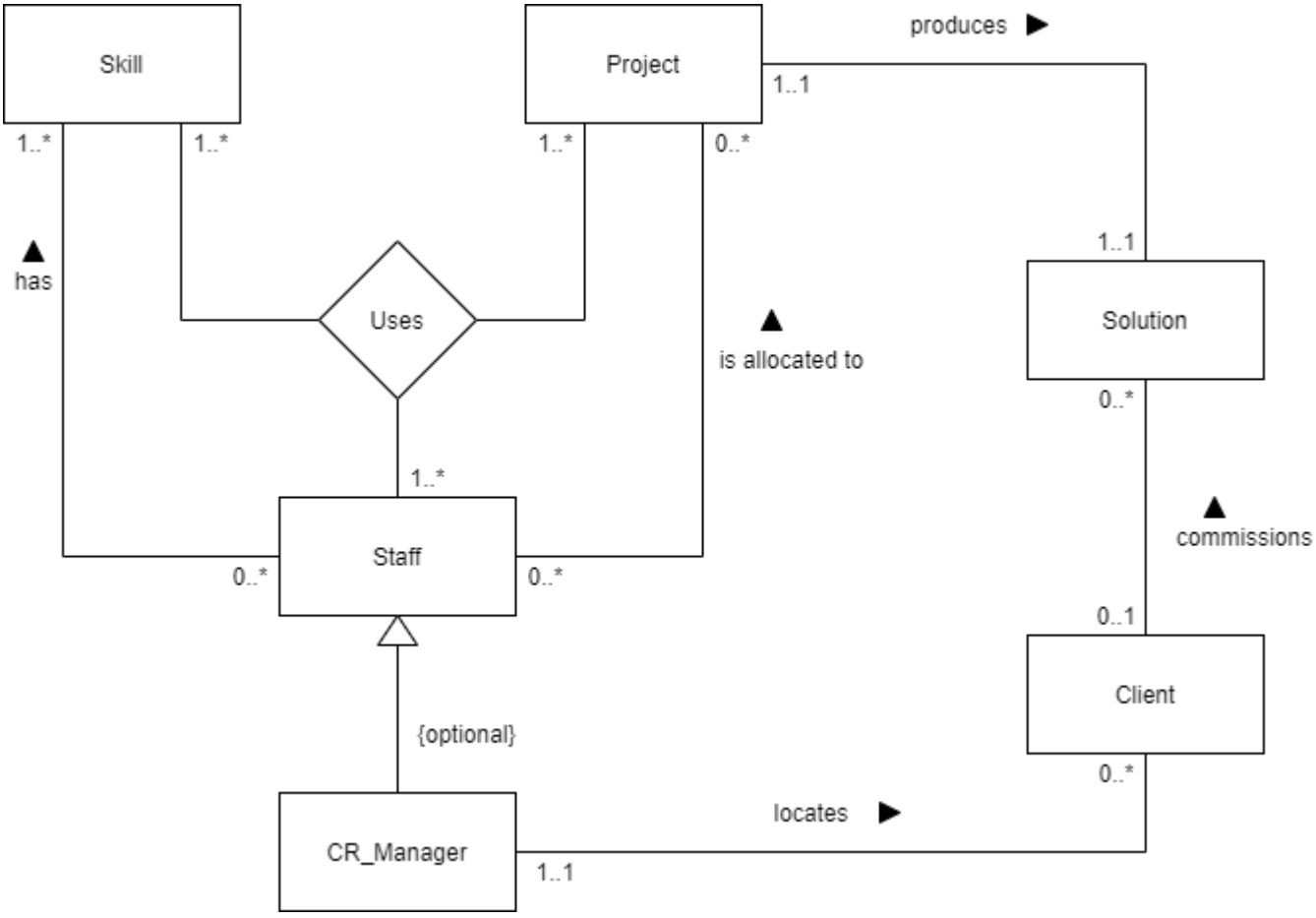
2022-2023 Tutorial 03

Logical Database Design – Mapping to a Logical Entity-Relationship Model

MODEL ANSWER

Tutorial 03 Exercise 01

Carefully consider the conceptual EERD (Enhanced Entity-Relationship Diagram) shown below for the ITDream case study introduced in Tutorial 02 Exercise 01.

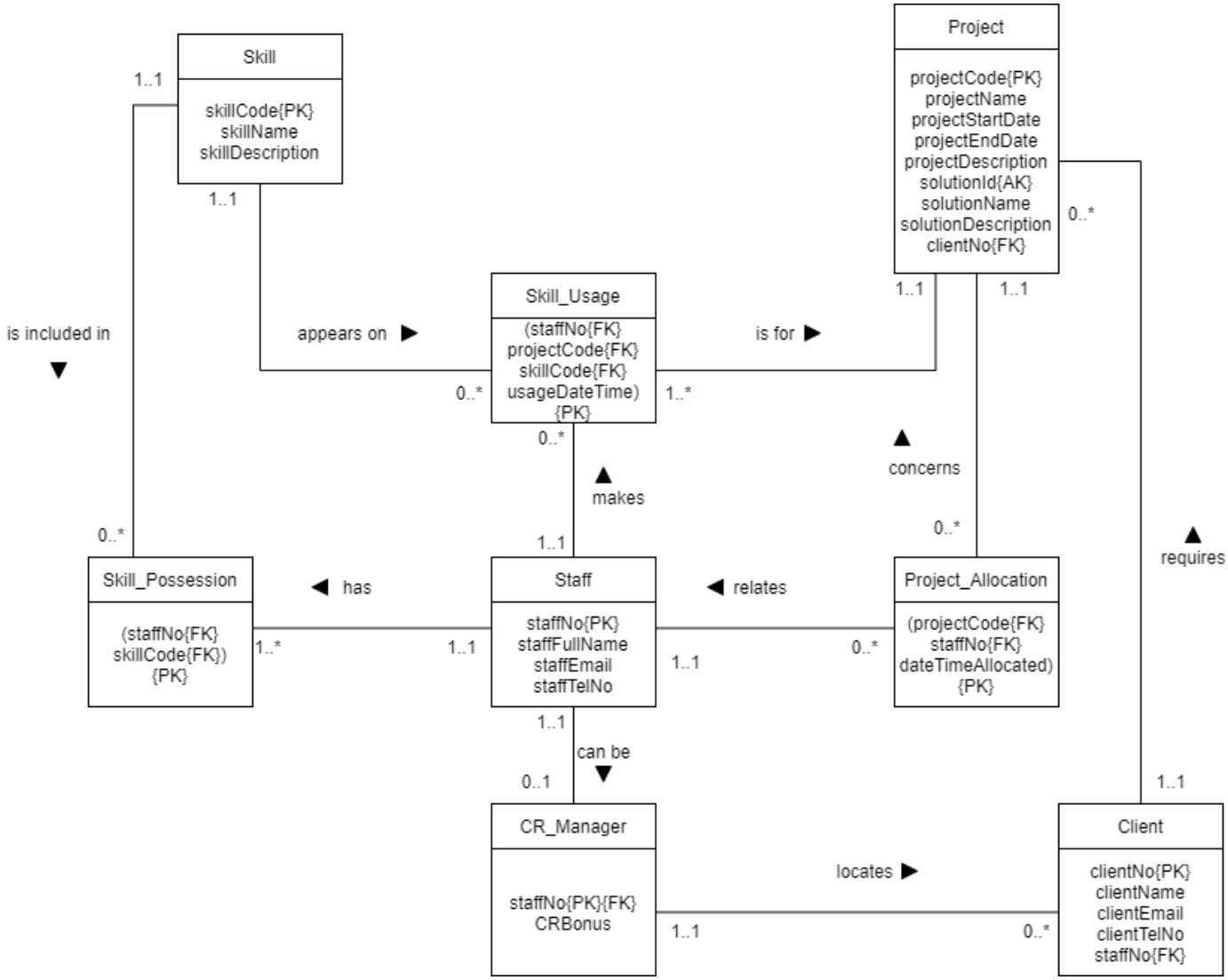


Map this conceptual EERD into a full **logical ERD (i.e. a relational schema)**.

- To do this, resolve all the relationships one by one and derive the associated relations (i.e. tables) with all the attributes, primary keys and foreign keys. Your solution should consist of a complete logical ERD.

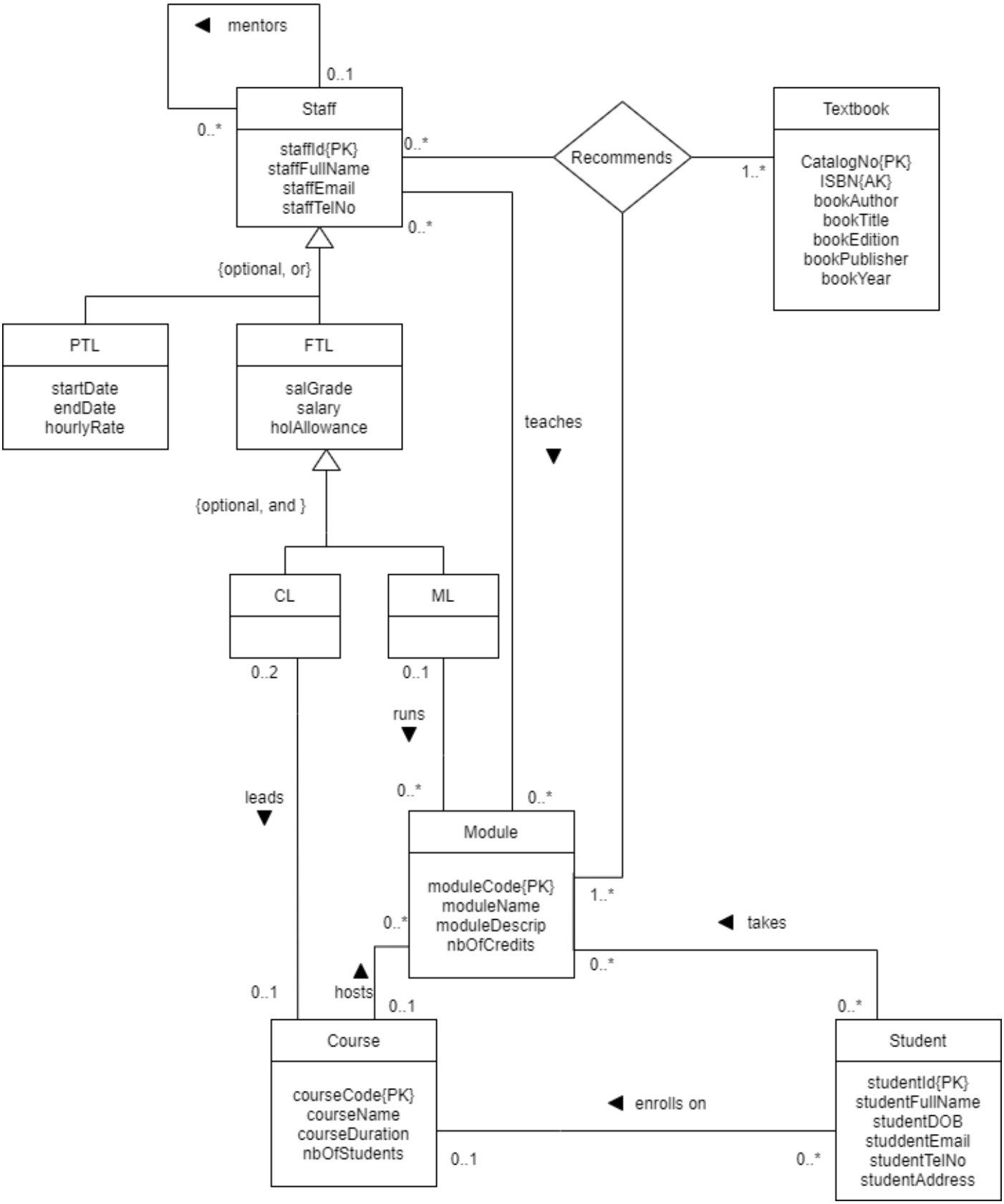
- Create your logical ERD using draw.io, export your ERD as a PNG and insert it below.

Model Answer



Tutorial 03 Exercise 02

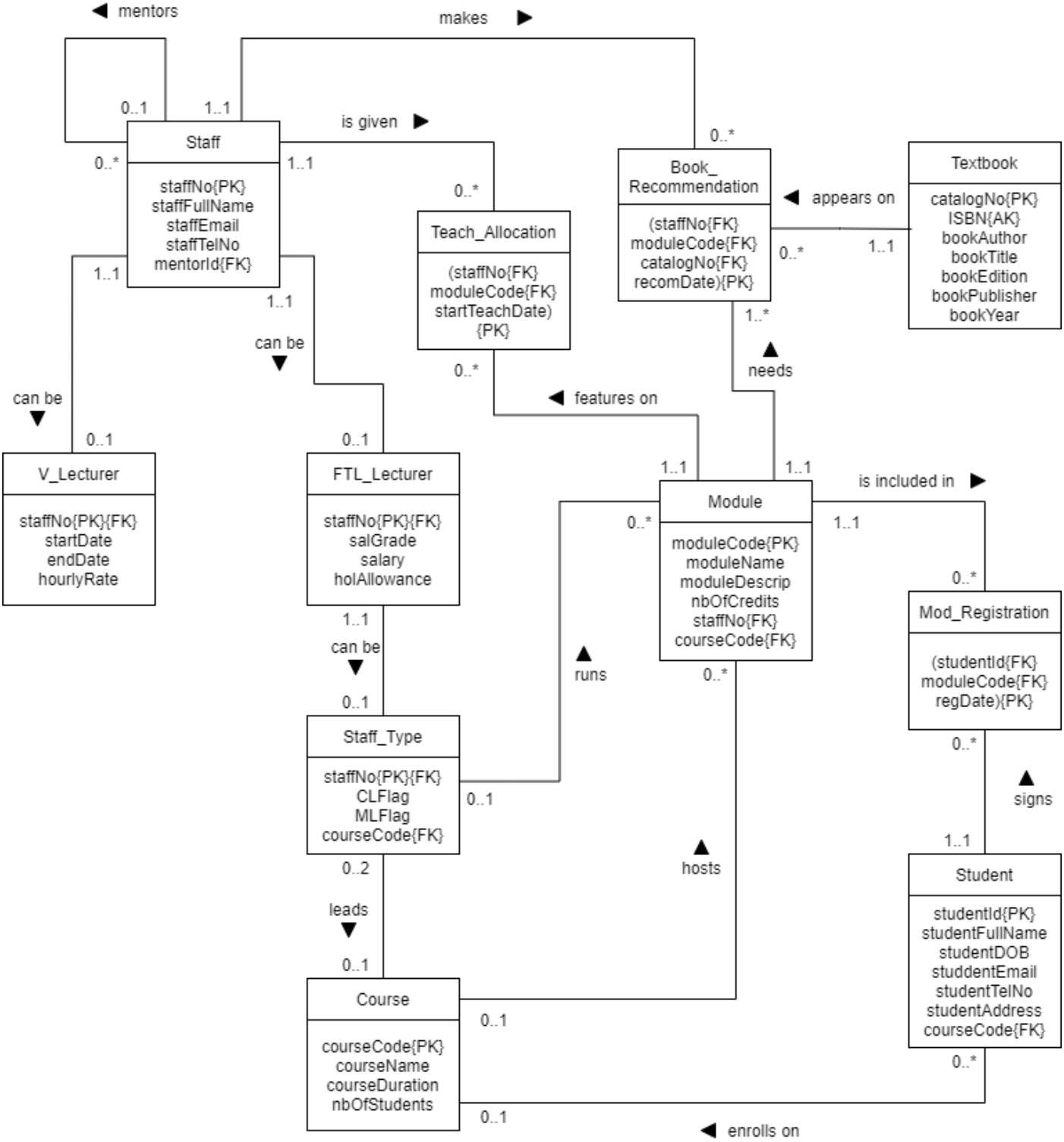
Carefully consider the conceptual EERD (Enhanced Entity-Relationship Diagram) shown below for the CoolUni case study introduced in Tutorial 02 Exercise 02.



Map this conceptual EERD into a full **logical ERD (i.e. a relational schema)**.

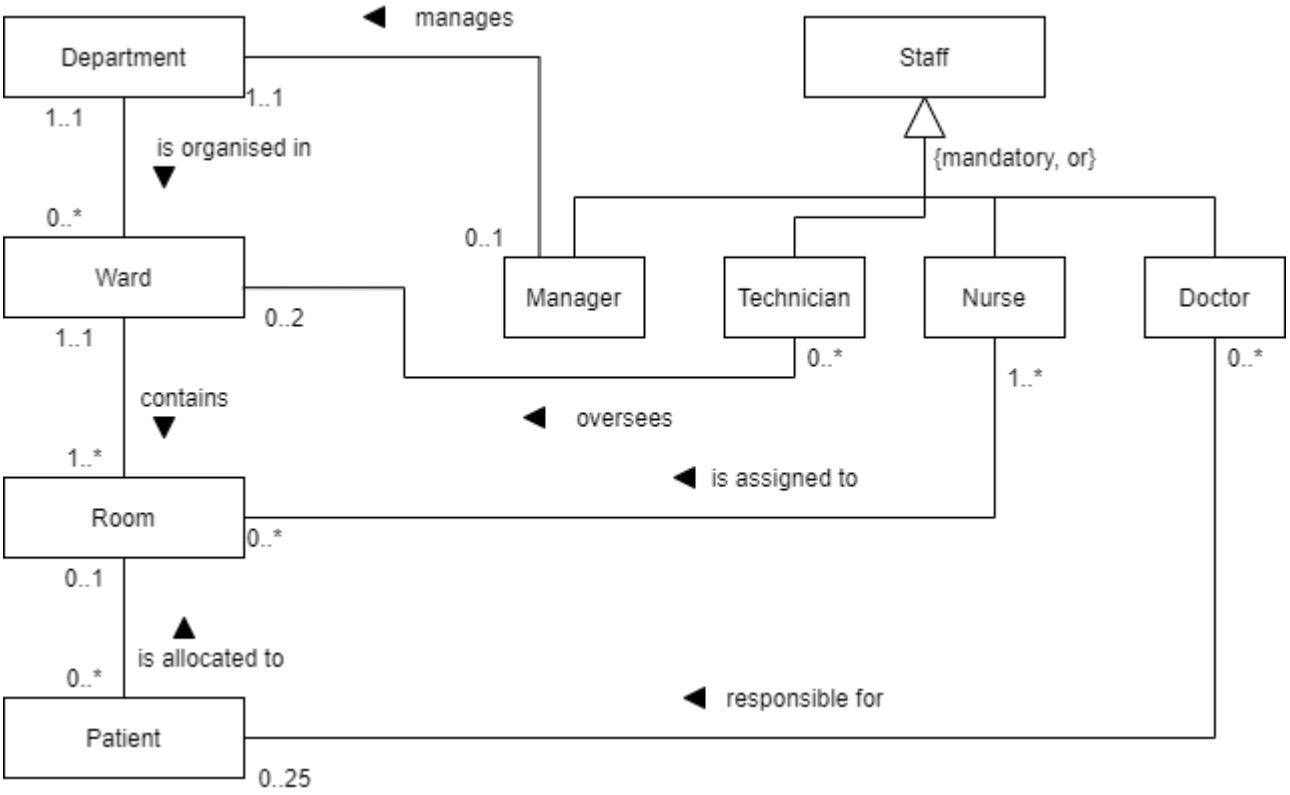
- To do this, resolve all the relationships one by one and derive the associated relations (i.e. tables) with all the attributes, primary keys and foreign keys. Your solution should consist of a complete logical ERD.
- Create your logical ERD using draw.io, export your ERD as a PNG and insert it below.

Model Answer



Tutorial 03 Exercise 03

Carefully consider the conceptual EERD (Enhanced Entity-Relationship Diagram) shown below for the HOSPIMAX case study introduced in Tutorial 02 Exercise 03.



Map this conceptual EERD into a full **logical ERD (i.e. a relational schema)**.

- To do this, resolve all the relationships one by one and derive the associated relations (i.e. tables) with all the attributes, primary keys and foreign keys. Your solution should consist of a complete logical ERD.

- Create your logical ERD using draw.io, export your ERD as a PNG and insert it below.

Model Answer