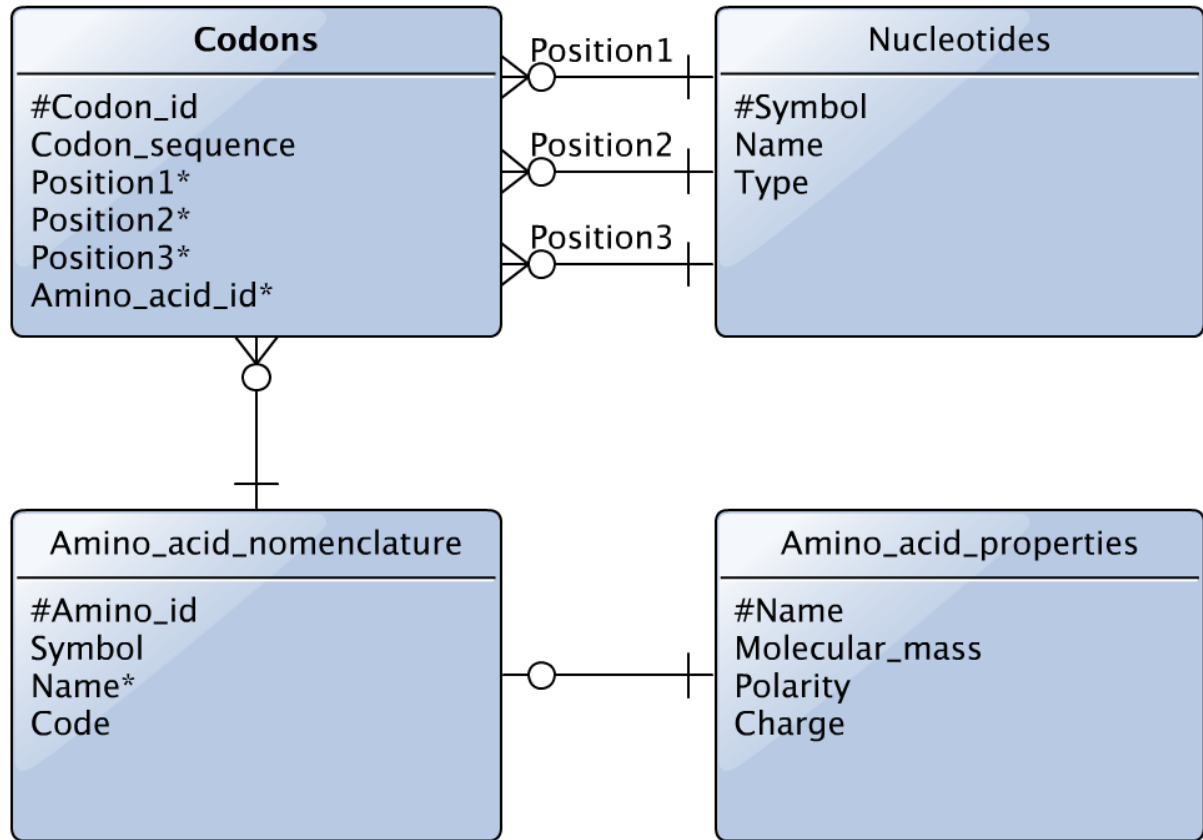


INF115 – Compulsory exercise 2

Exercise 1



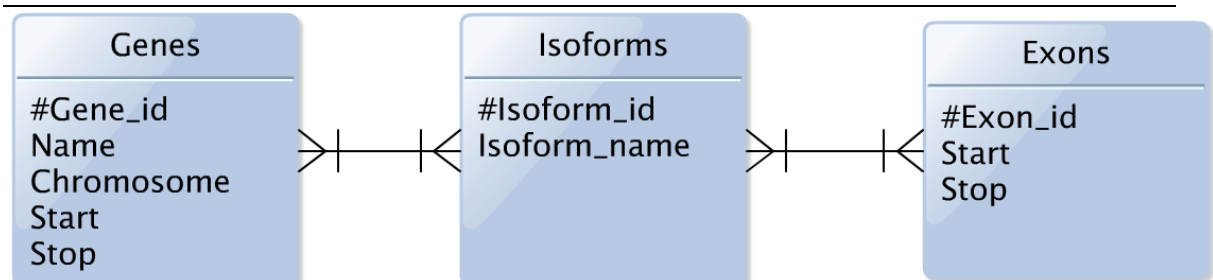
Exercise 2

2.1

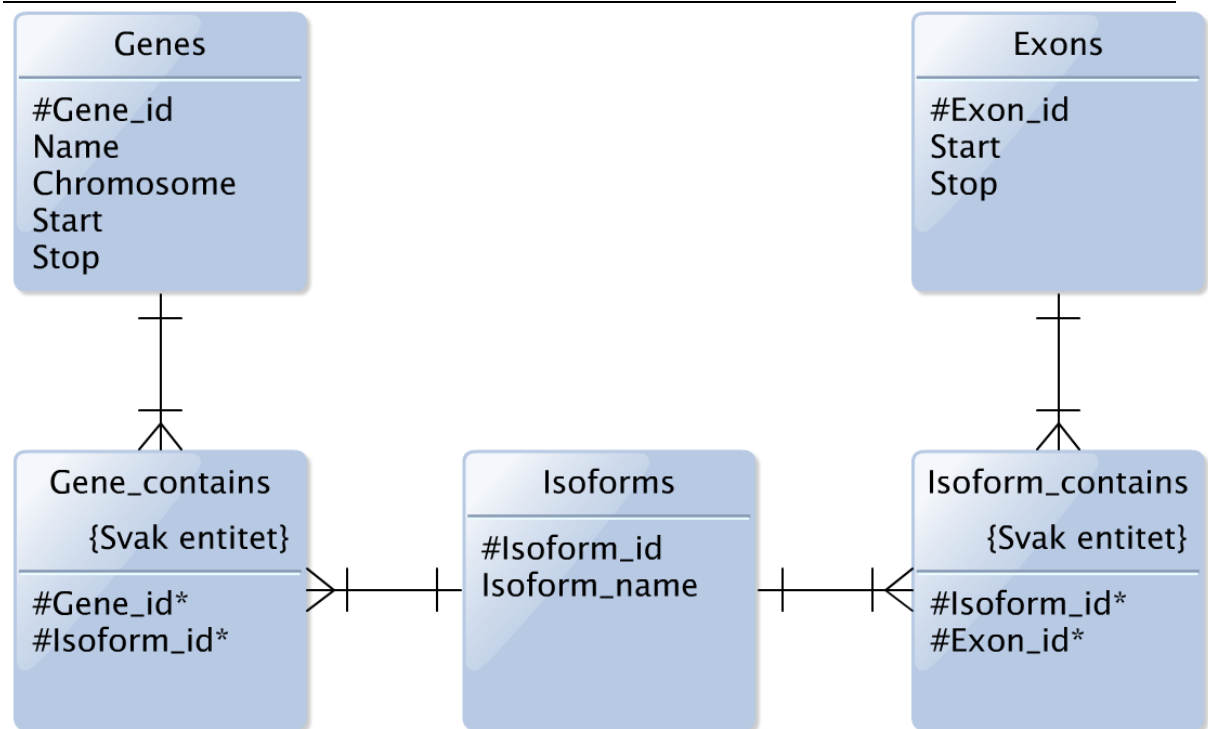
The entities are:

- Genes
- Isoforms
- Exons

2.2



2.3



Exercise 3

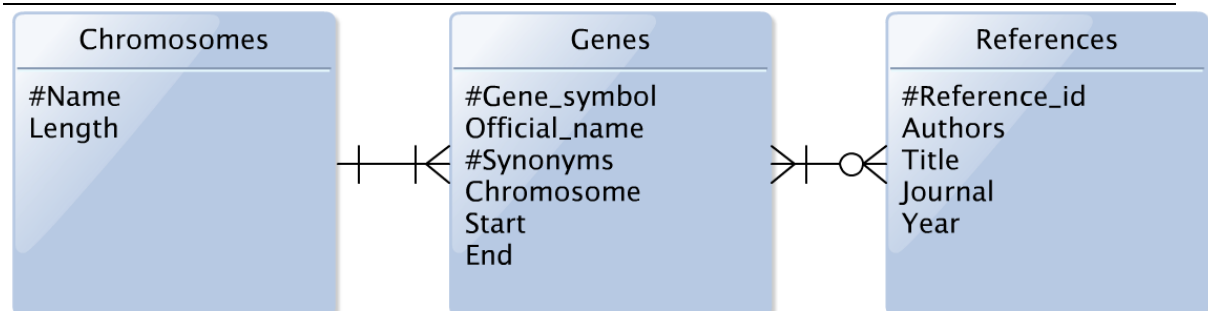
3.1

The entities are:

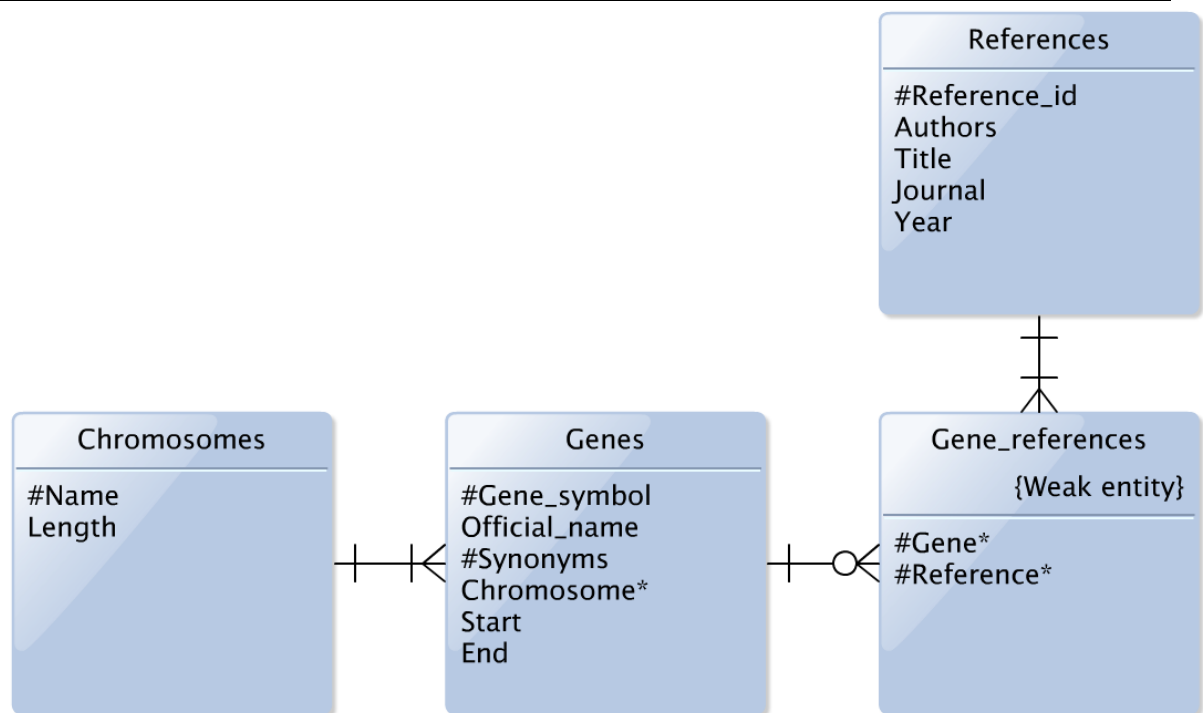
- Genes
- References
- Chromosomes

(Chromosomes could be omitted.)

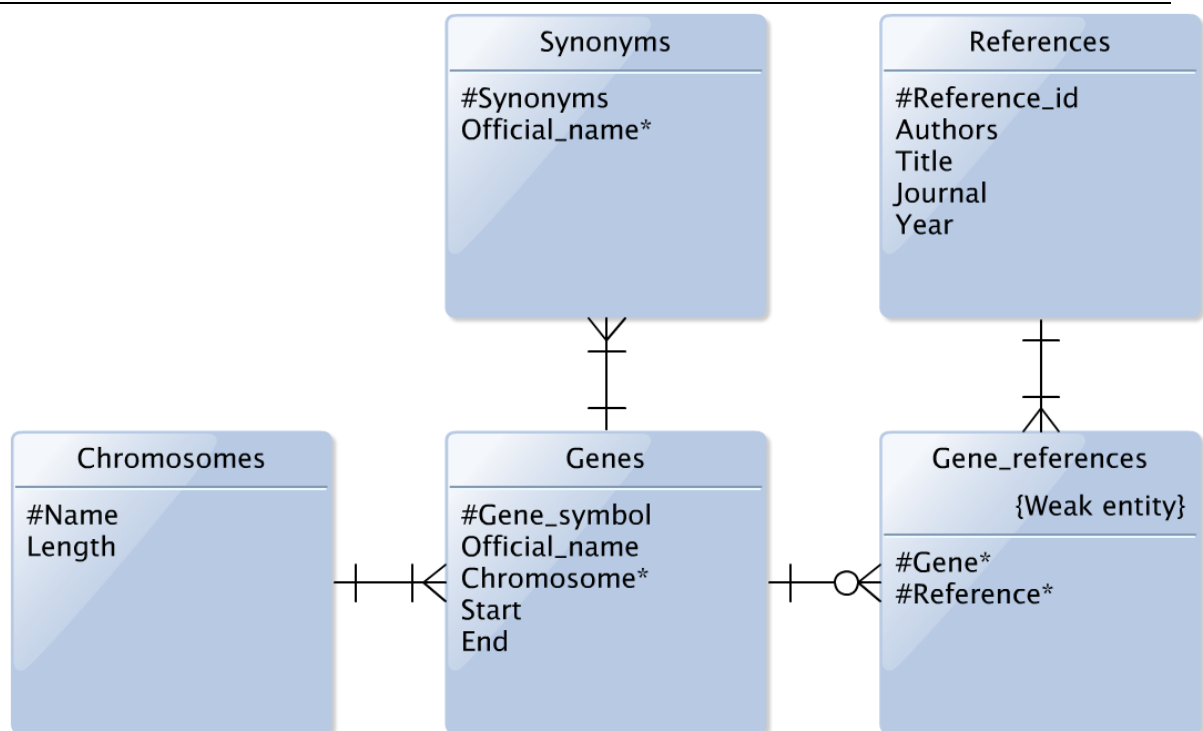
3.2



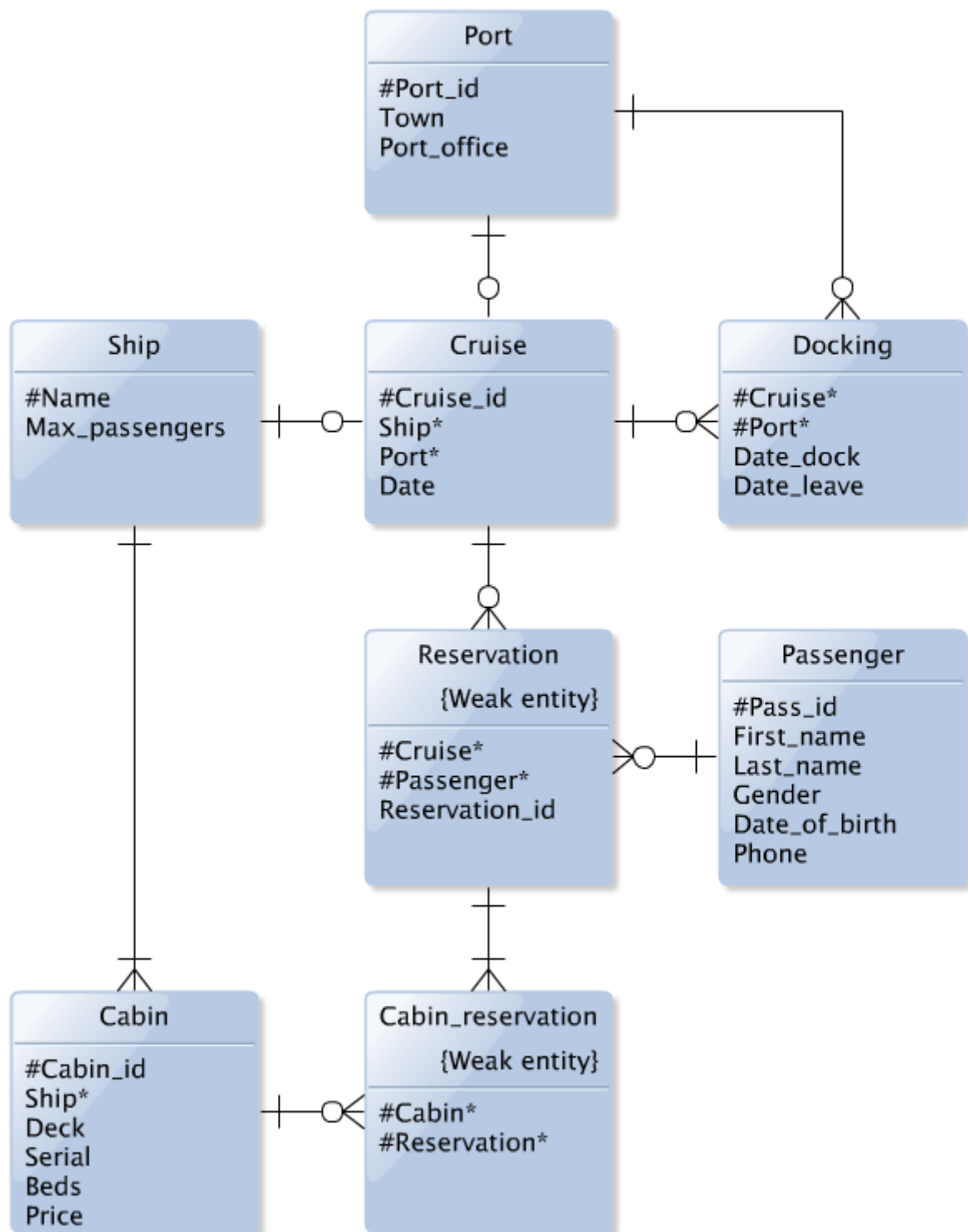
3.3



3.4



Exercise 4



Exercise 5

5.1

Assuming trucks will have more than one assignment each, this design will duplicate the truck information every time the truck gets a new assignment. This will take up unnecessary space and make editing of truck values complicated.

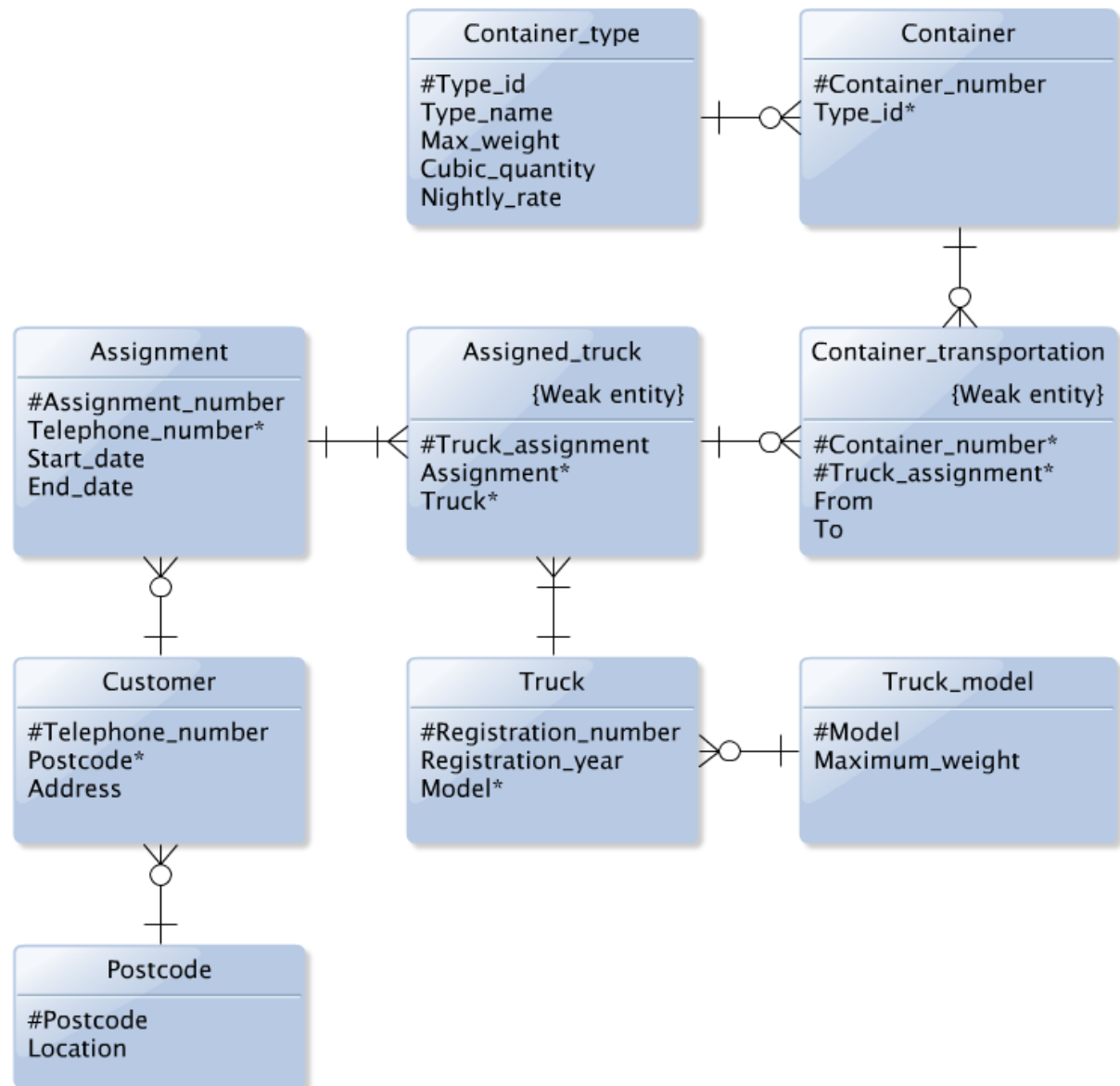
5.2

Registration_number \rightarrow Registration_year, Model, Maximum_weight
 Model \rightarrow Maximum_weight

5.3

Candidate key:
 (Registration_number, Assignment_number)

5.4



(Note: Container_transportation is added in the event that one truck can move more than one container per assignment.)