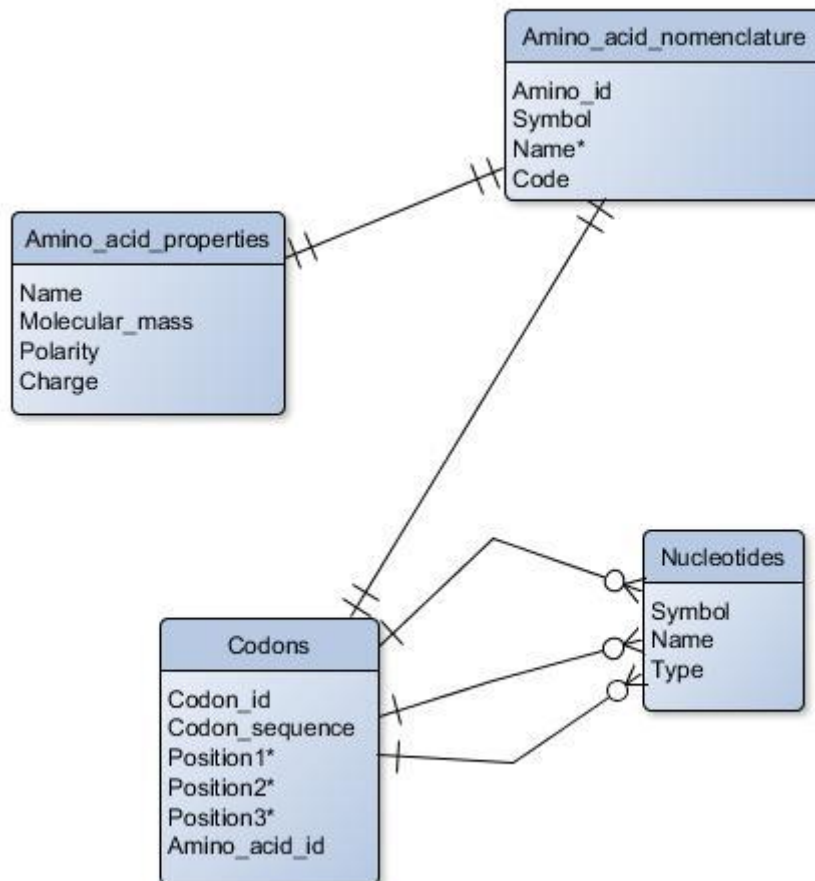


INF115 Compulsory Exercise 2

Exercise 1

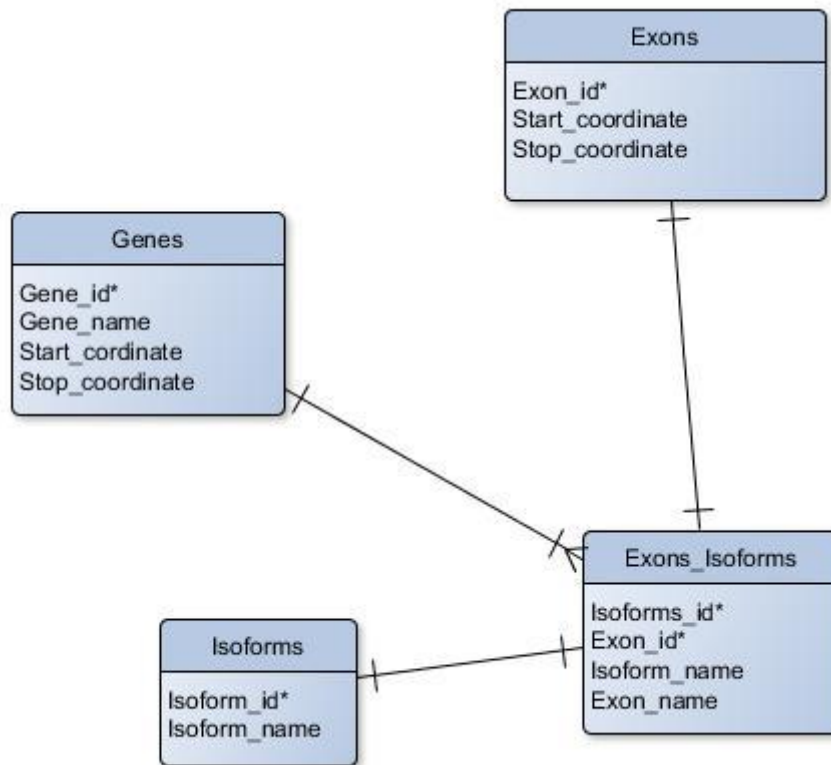


Exercise 2

i)

The entities in the database are Genes, Exons, Exons_Isoforms and Isoforms.

ii)



iii)

Genes			
Gene_id*	Gene_name	Start_coordinate	Stop_coordinate

Exons		
Exon_id*	Start_coordinate	Stop_coordinate

Isoforms	
Isoform_id*	Isoform_name

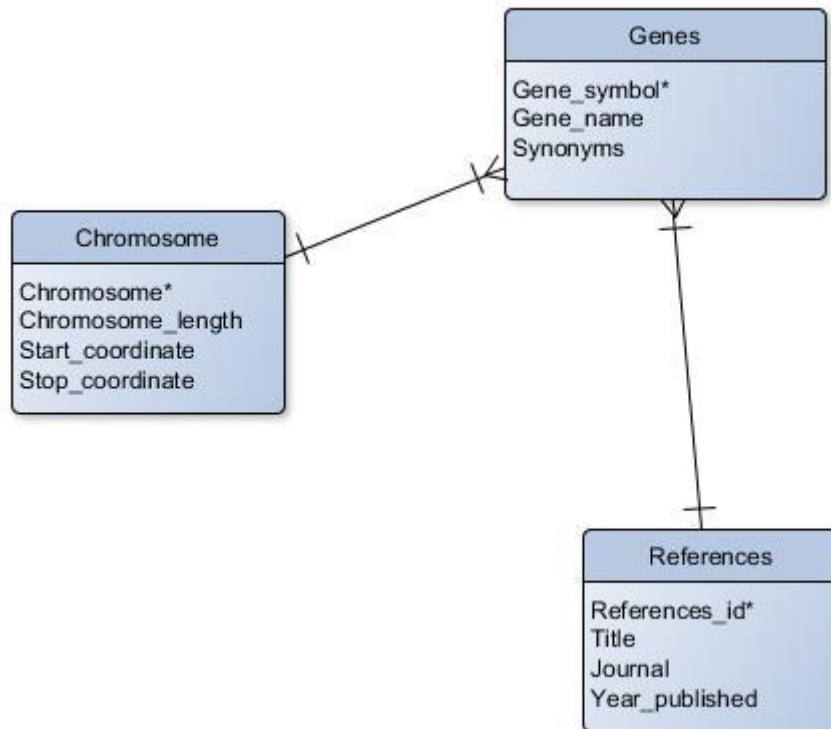
Exons_Isoforms			
Isoforms_id*	Exon_id*	Isoform_name	Exon_name

Exercise 3

i)

The identities in the database are Genes and Chromosomes

ii)



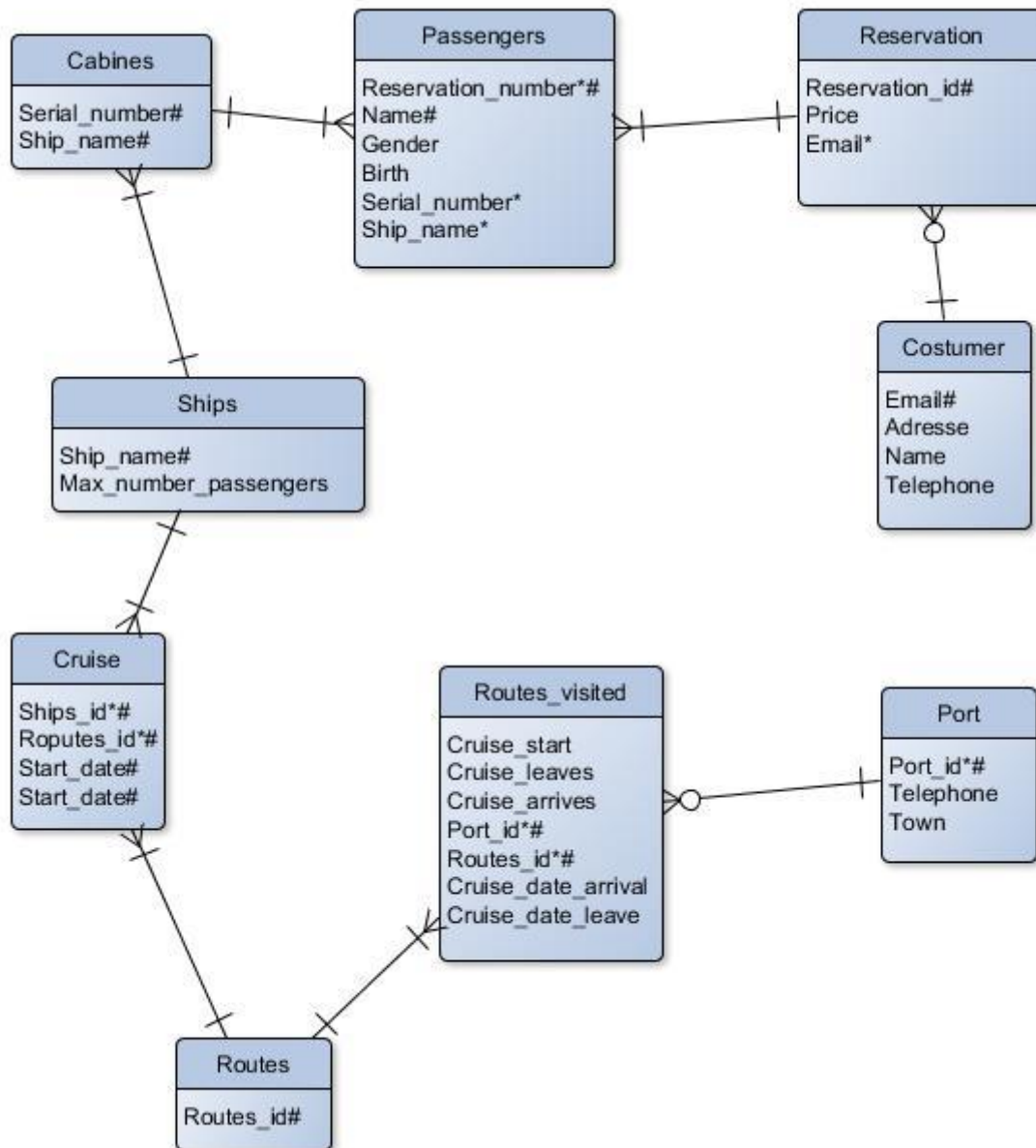
iii)

Chromosome			
Chromosome*	Chromosome_length	Start_coordinate	Stop_coordinate

Genes		
Gene_symbol*	Gene_name	Synonyms

References			
References_id*	Title	Journal	Year_published

Exercise 4



Exercise 5

i)

Truck doesn't have a primary key

ii)

The maximum weight is dependent to do the model, and by looking at the model we can find the weight.

iii)

The candidate key to the Truck table is Registration_number.