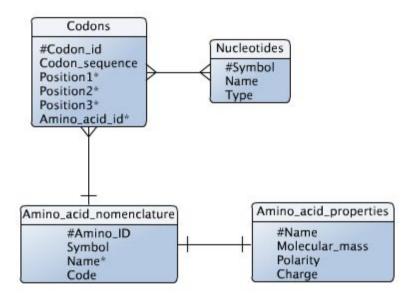
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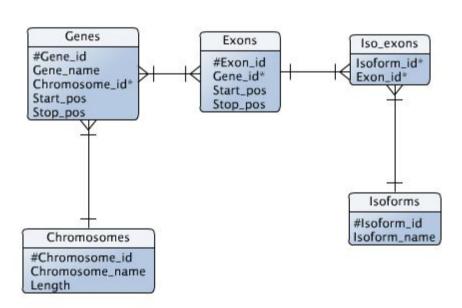
1)



2)

i)
Genes, exons, isoforms, chromosomes

ii)



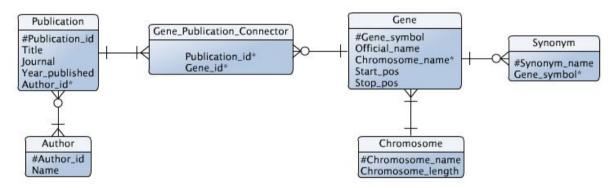
Genes(#Gene_id, Gene_name, Chromosome_id*, Start_pos, Stop_pos)
Exons(#Exon_id, Gene_id*, Start_pos, Stop_pos)
Isoforms(#Isoform_id, Isoform_name)
Iso_exons(Isoform_id*, Exon_id*)
Chromosomes(#Chromosome_id, Chromosome_name, length)

3)

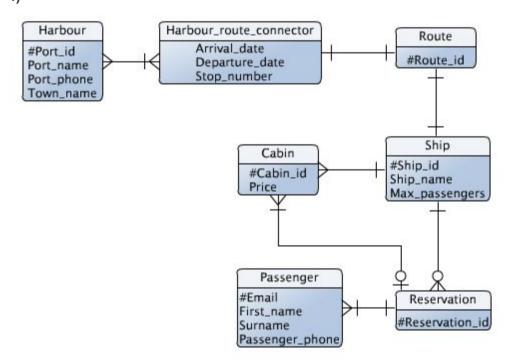
Exercise 3.iii, and 3.iv had to be skipped due to time constraints caused by poorly planned schedule.

i)
Genes, Chromosome, Synonyms, Publications

ii)



4)



- **5)**Exercise 5.IV had to be skipped because of time constraints.
- i) We know the maximum weight of the vehicle but not the actual weight of the vehicle therefore this information can be quite vague. Also I would handle the registration number as the Primary key as I see there is no primary key marked.
- **ii)**Maximum_weight, Model, and Registration year are all functionally dependent on Registration_number
- **iii)**Registration_number is the only candidate key in the table, as all other values in the table are not guaranteed to be unique to any one entry. Therefore Registration_number is also the Primary key of the table.