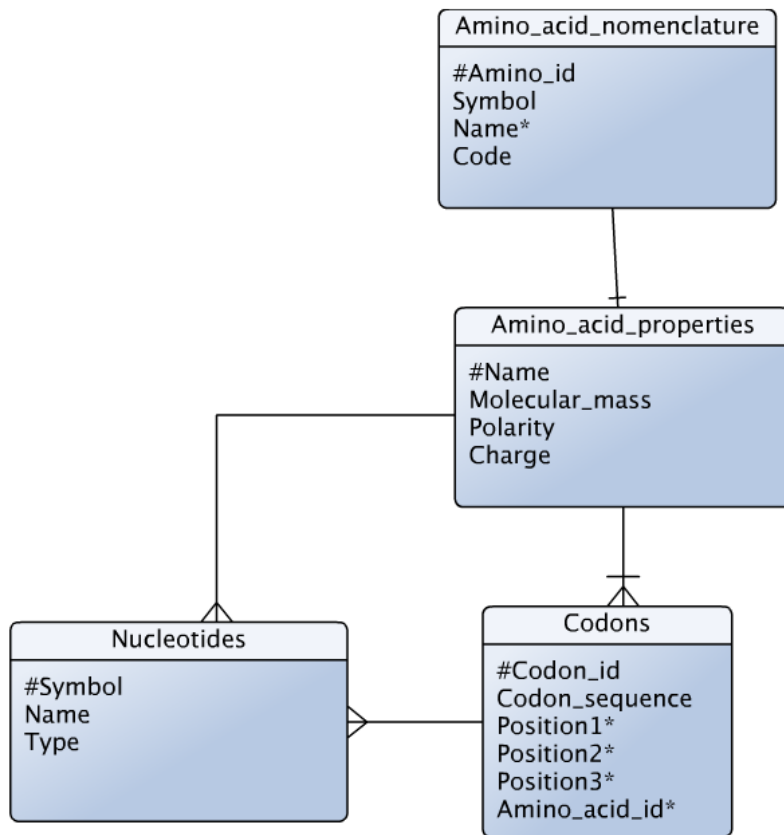


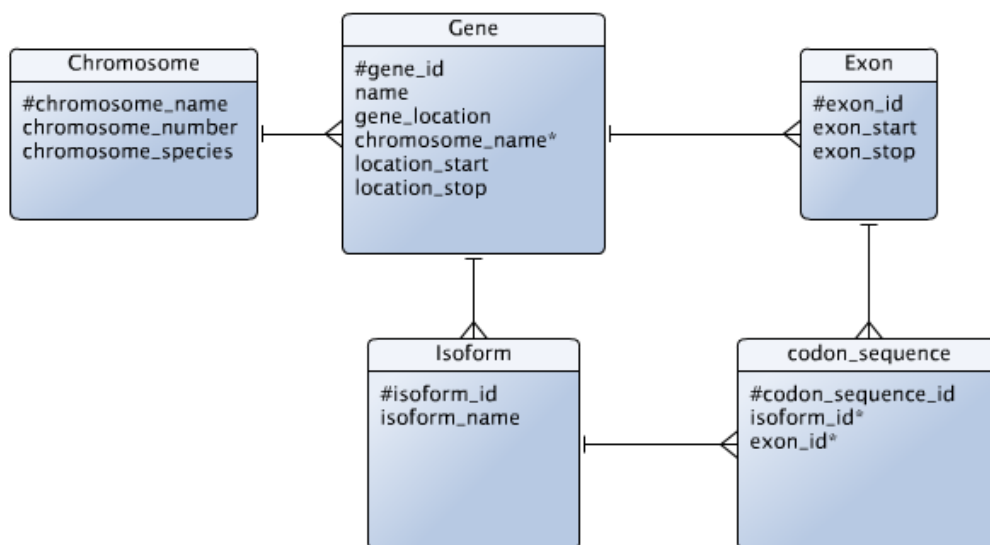
Compulsory exercise 2 (E/R and Normalisation)

1)



2)i) There are 5 entities: chromosomes, genes, exons, codon_sequence and isoforms. The codon_sequence entity is used as a connection between the exon and isoform entity. Sequences of codons make up an exon, and combinations of exons is called an isoform.

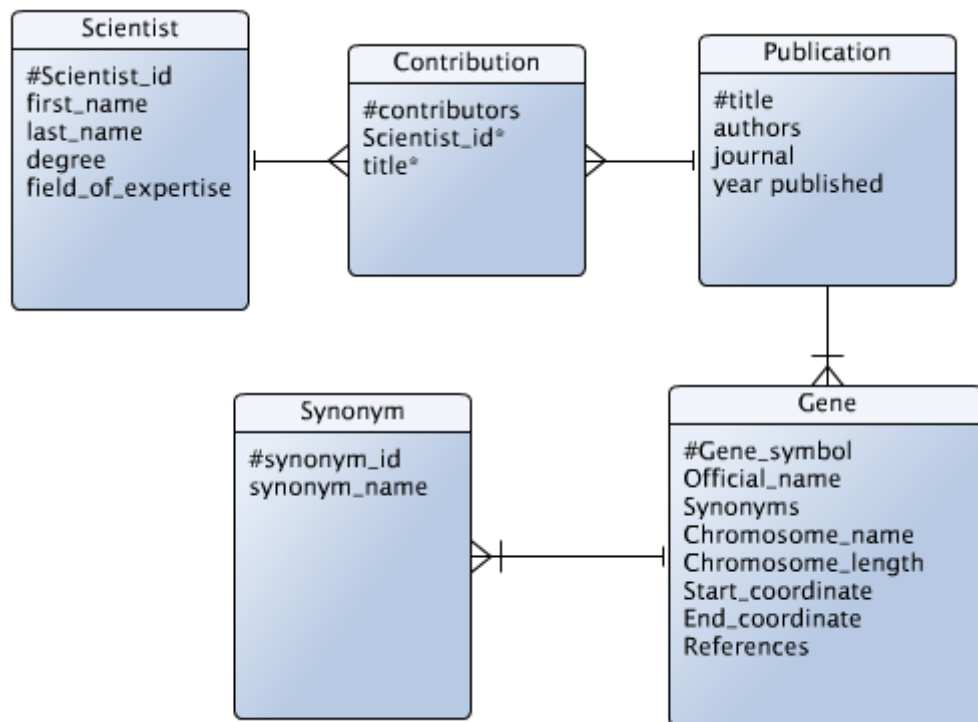
ii)



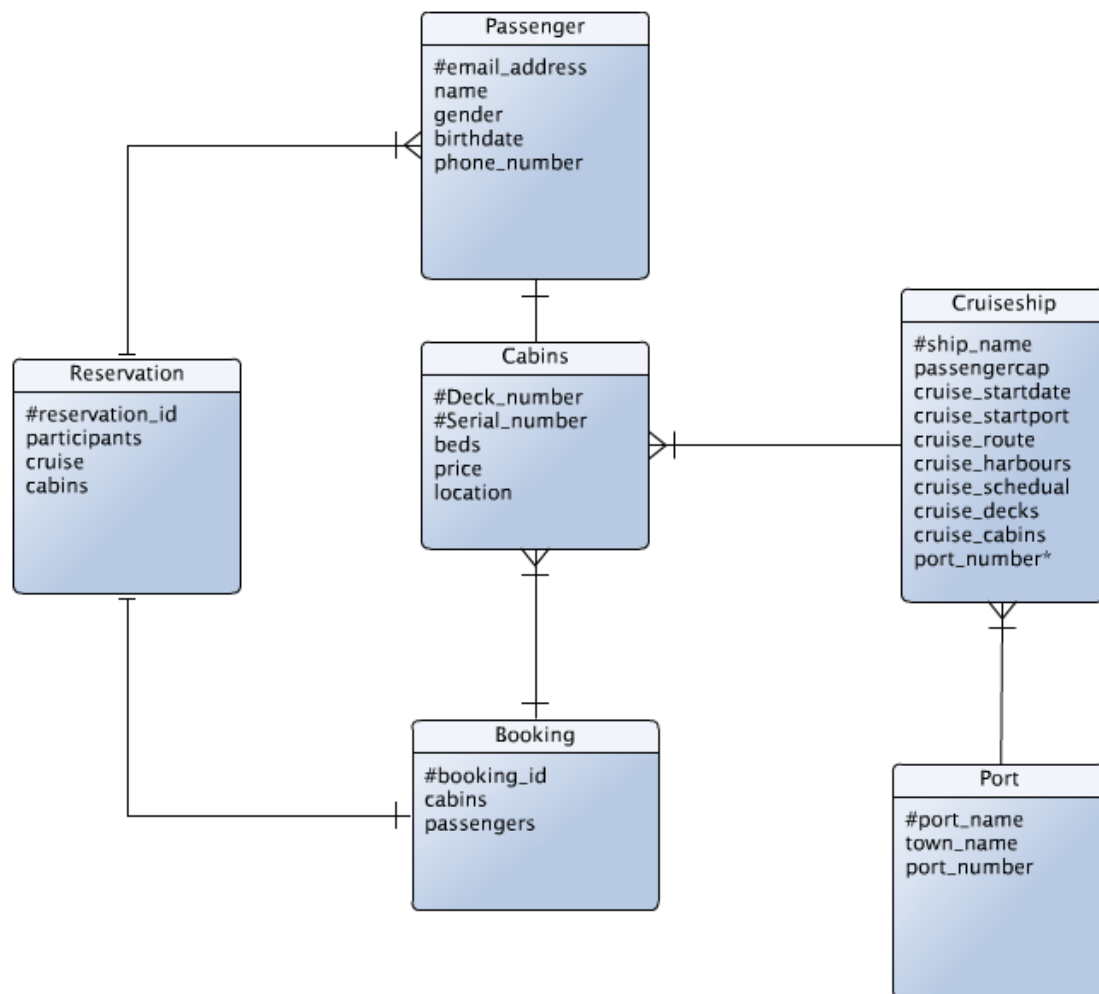
3)i)

There are 5 entities: genes, synonyms, publications, scientists, and contribution as a connection between publications and scientists.

ii)



4)



5)

i) The truck entity is missing a primary key, so it becomes problematic without an identifier.

iii)

Pretty sure the candidate keys for the truck are Registration_number and Registration_year, it will work like a composite primary key.