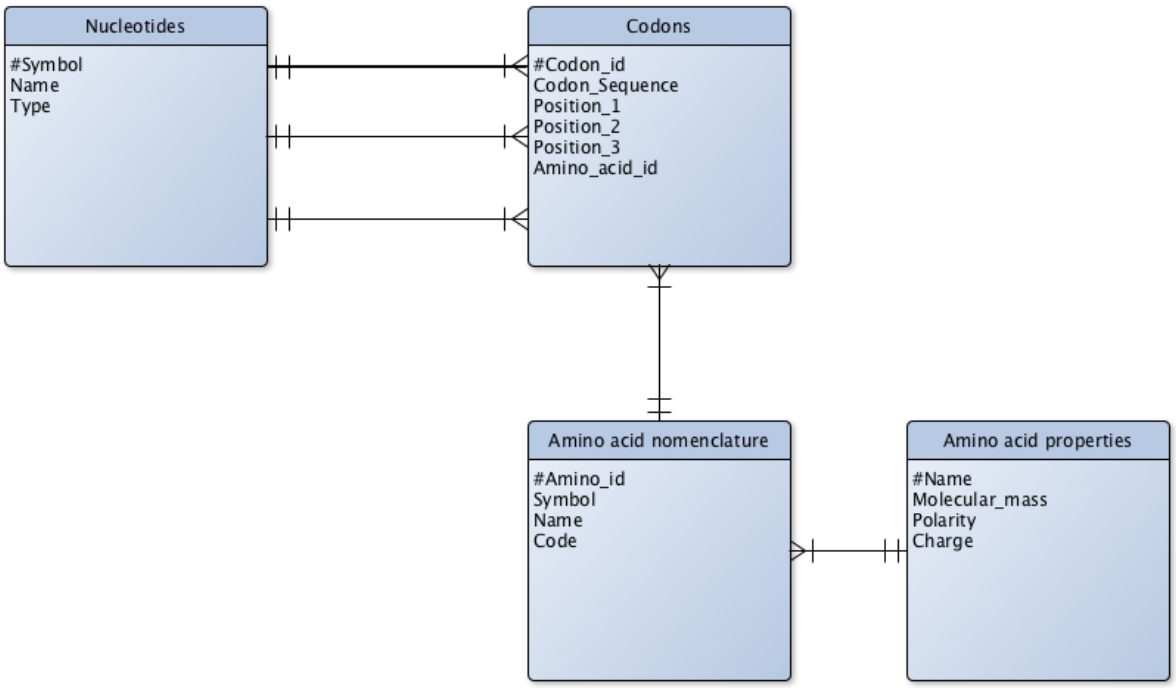
Task 1

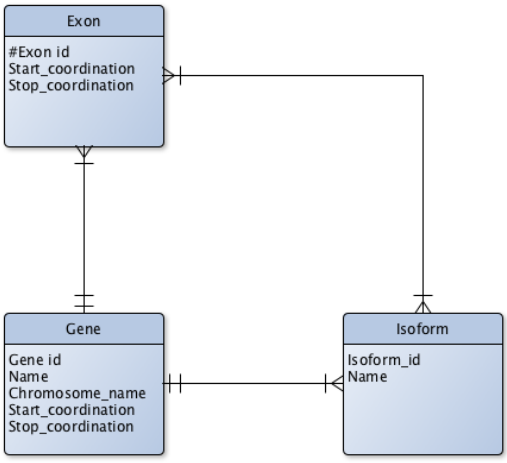


Task 2

i)

Gene, Exon, Isoform

ii)



iii)

Genes (#Gene_id, Name, Chromosome_name, Start_coordination, Stop_coordination)

Exons (#Exon_id, Start_coordination, Stop_coordination)

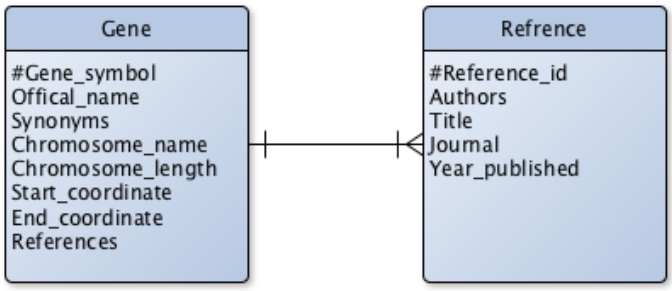
Isoforms (#Isoform_id, Isoform_Name, Gene_id*)

Exon_Isoform(Gene_id*, Isoform_id*)

Task 3

i)

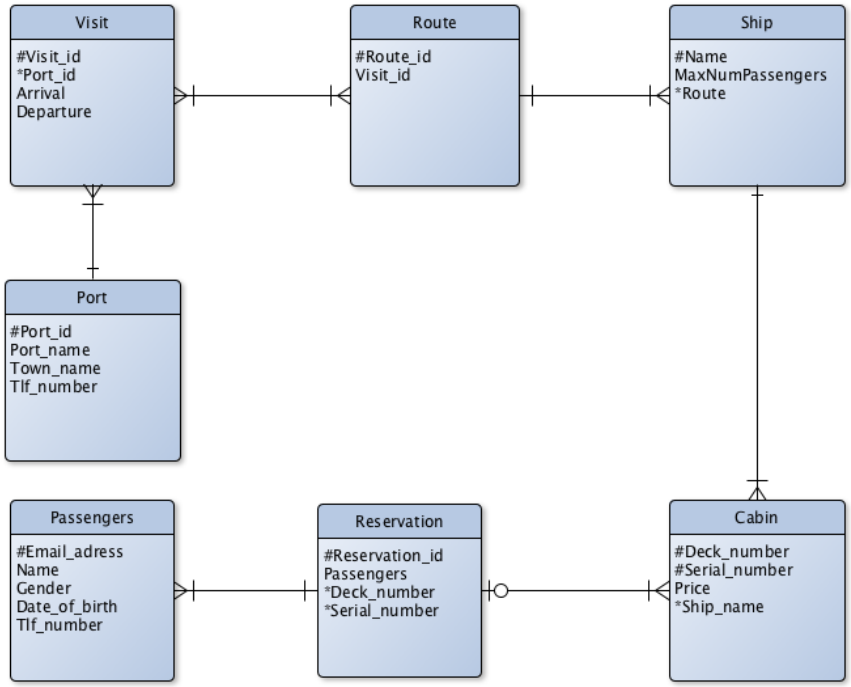
Gene, Referance
ii)



iii)
Gene (#Gene_symbol, Ofiicial_name, #Synonyms, Chromosome_name, Chromosome_length, Start_coordinate, End_coordinate, Reference_id*) Reference (#Reference_id, #Authors, Title, Journal, Year_published)

iv)
Gene (#Gene_symbol, Official_name, Synonym_id*, Chromosome_name, Start_coordinate, End_coordinate, Reference_id*) Synonyms (#Synonym_id, Synonym_name) Reference (#Reference_id, Author_id*, Title, Journal, Year_published) Authors (#Author_id, Author_name) Chromosome (Chromosome_name, Chromosome_length)

Task 4



Task 5
i)
Siden bilen er på oppdraget helt til sluttdato, kan bilen være arbeidsledig i lang tid etter arbeidet er ferdig. De har ikke kontroll på hvem som kjører konteineren og dermed vet de ikke hvilke bil som er i bruk til hvilke tid.

ii)

En spesifikk modell, har en bestemt vekt. Derfor vil ikke Model og max_weight være uavhengig. Model --> Max_weight.

iii)
Kandidatnøkkel : Registration_number

iv)
Container_type (#Type_id, Type_name, Max_weight, Cubic_quantity, Nightly_rate)
Container (#Container_number, Type_id*)
Customer (#Telephone_number, Address)
Assignment (#Assignment_number, Telephone_number*, Container_number*, Start_date, End_date)

Truck (#Registration_number, Registration_year, Model*, Assignment_number*)
Model(#Model, Maximum_weight)