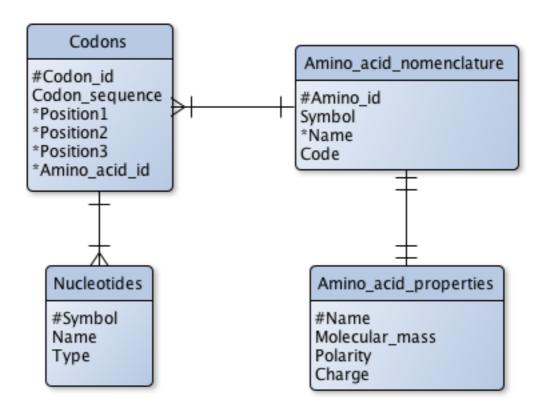
INF115

Compulsory Exercise 2

Jan Inge Sande - 10. april 2016

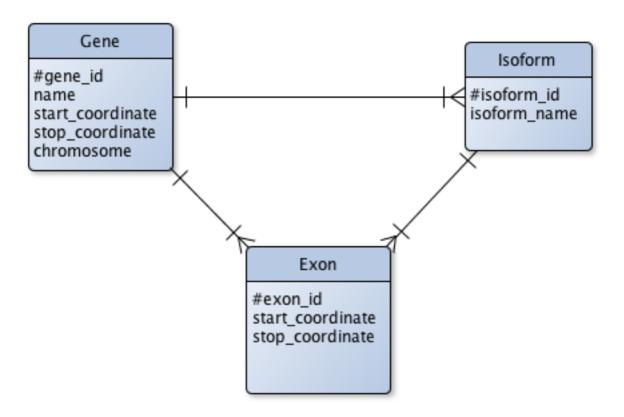
1)



2)

i) Gene Exon Isoform

ii)



iii) Gene(#gene_id,name,start_coordinate,stop_coordinate,chromosome)
 Exon(#exon_id,start_coordinate,stop_coordinate,gene_id*,exon_id*)
 Isoform(#isoform_id,isoform_name,gene_id*)

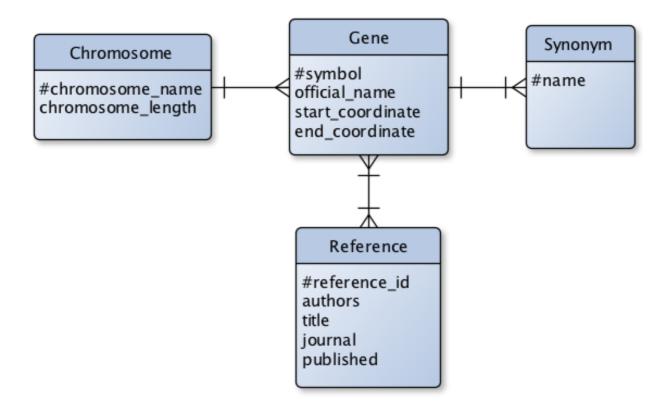
3)

i) Gene Synonym

Reference

Chromosome

ii)



iii) Chromosome(#chromosome_name,chromosome_length)

Gene(#symbol,official_name,start_coordinate,end_coordinate,chromosome_name*,reference_id*)

Synonym(#name,symbol*)

Reference(#reference_id,authors,title,journal,published,symbol*)

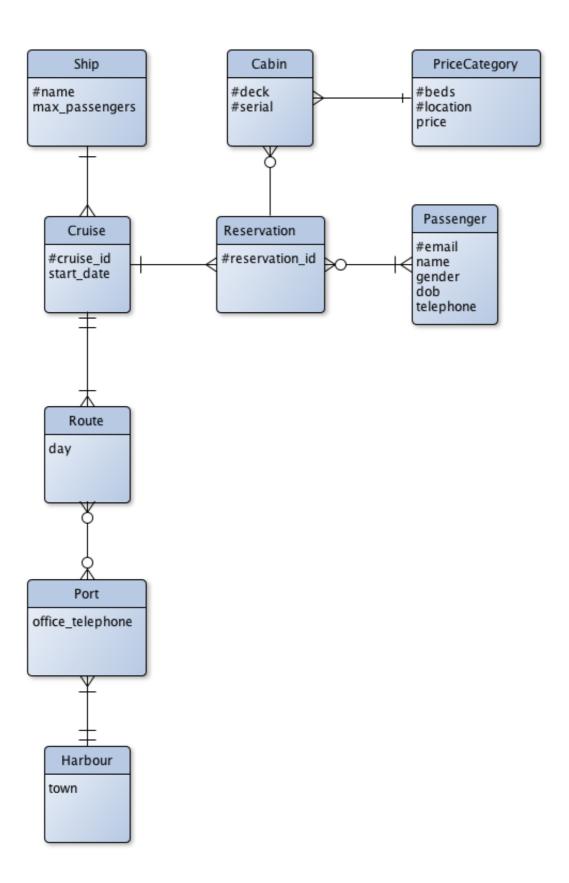
iv) Chromosome(#chromosome_name,chromosome_length)

 $Gene (\#symbol, official_name, start_coordinate, end_coordinate, chromosome_name*, reference*)$

Synonym(#name,symbol*)

GeneReference(#symbol,#reference_id)

Reference(#reference_id,authors,title,journal,published,symbol*)



5)

- i) Den nye tabellen vil inneholde redudante data, som fort kan bli inkonsekvent dersom f.eks. en bil får ny registrering eller maksimum vekt justeres. I tillegg vill dette ta opp unødvendig plass/maskinressurser.
- ii) Registration_number → Registration_year, Registration_number → Model,
 Registration_number → Maximum_weight, Registration_number →
 Maximum_weight
- iii) Registration_number
- iv) Assignment (#Assignment_number, Telephone_number*,Container_number*,Registration_number*,Start_date, End_date)Truck (#Registration_number, Registration_year, Model, Maximum_weight)