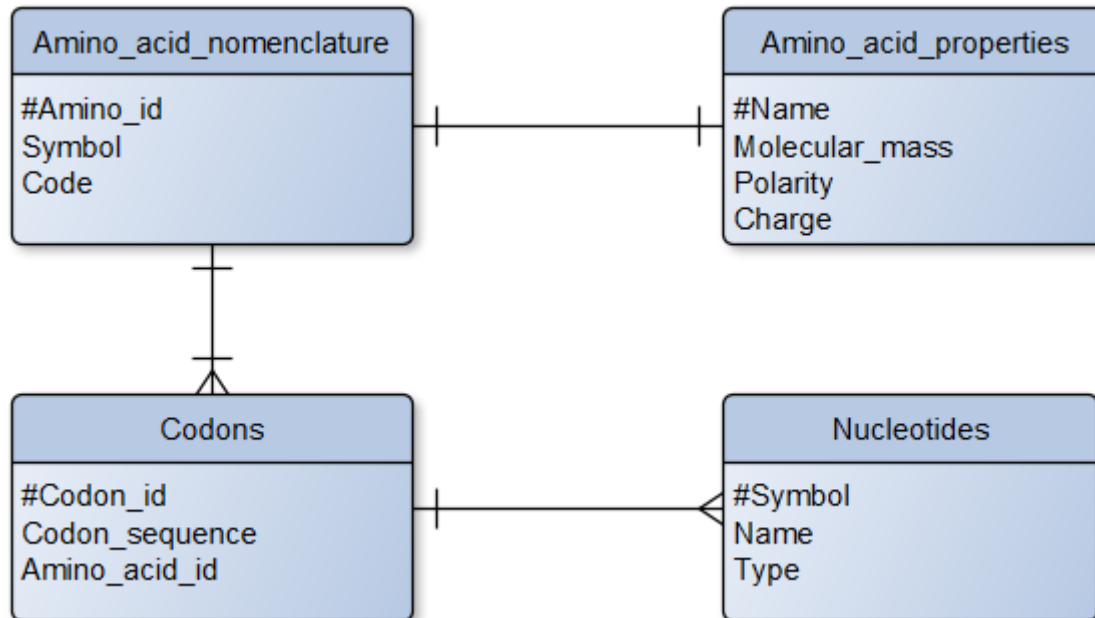


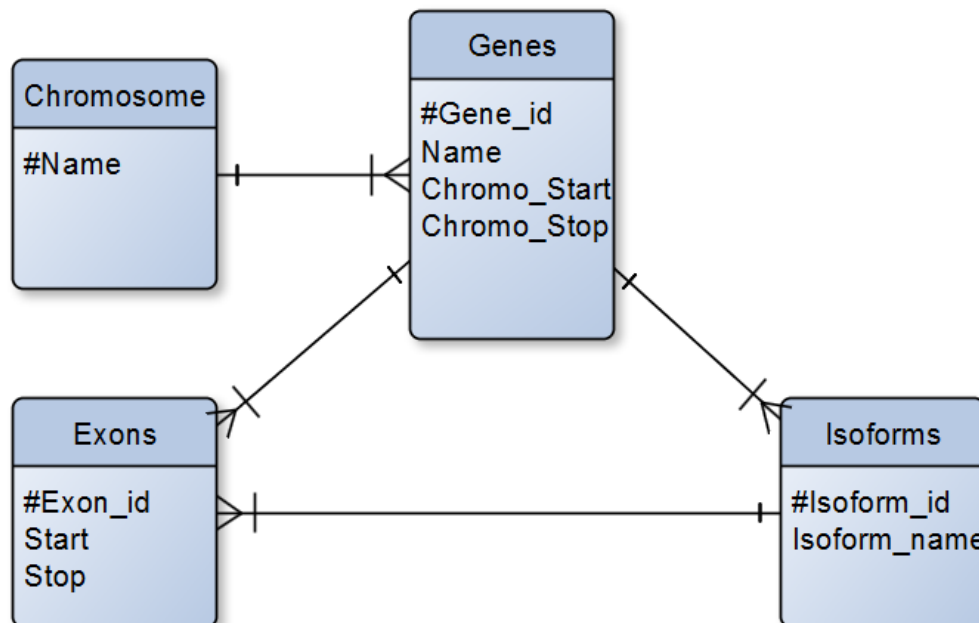
INF115 Compulsory 2

Oppgave 1.



Oppgave 2.

- i) Genes, Exons og Isoforms.
- ii)

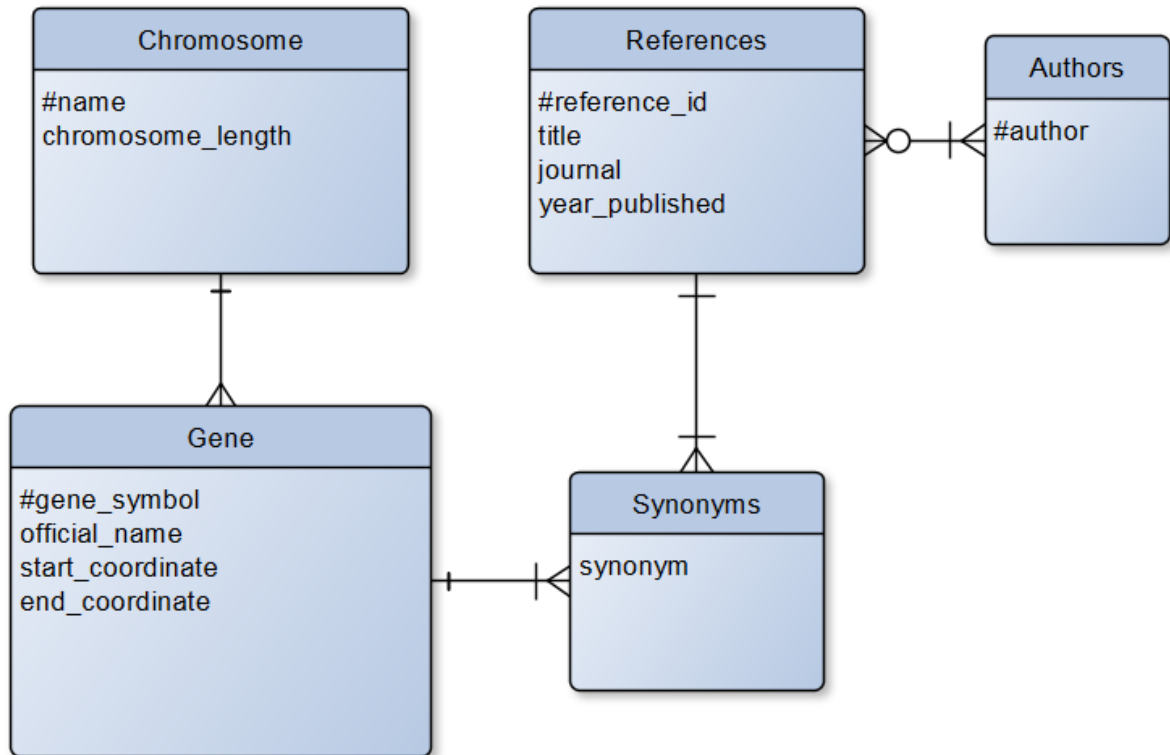


- iii) Genes(**#gene_id**, gene_name, location, chromo_name, chromo_start, chromo_stop)
 Exons(**#exon_id**, start_coordinate, stop_coordinate, gene_id*, isoform_id*)
 Isoforms(**#isoform_id**, isoform_name)
 Chromosome(**#name**)

Oppg ve3.

i) Gene, Chromosome, Synonyms, References og author

ii)



iii)

Gene(#gene_symbol, official_name, chromosome_name*, start_coordinate, end_coordinate, chromosome_length)

Synonyms(#gene_id, synonym)

References(#reference_id, authors, title, journal, year_published)

iv)

Gene(#gene_symbol, official_name, start_coordinate, end_coordinate)

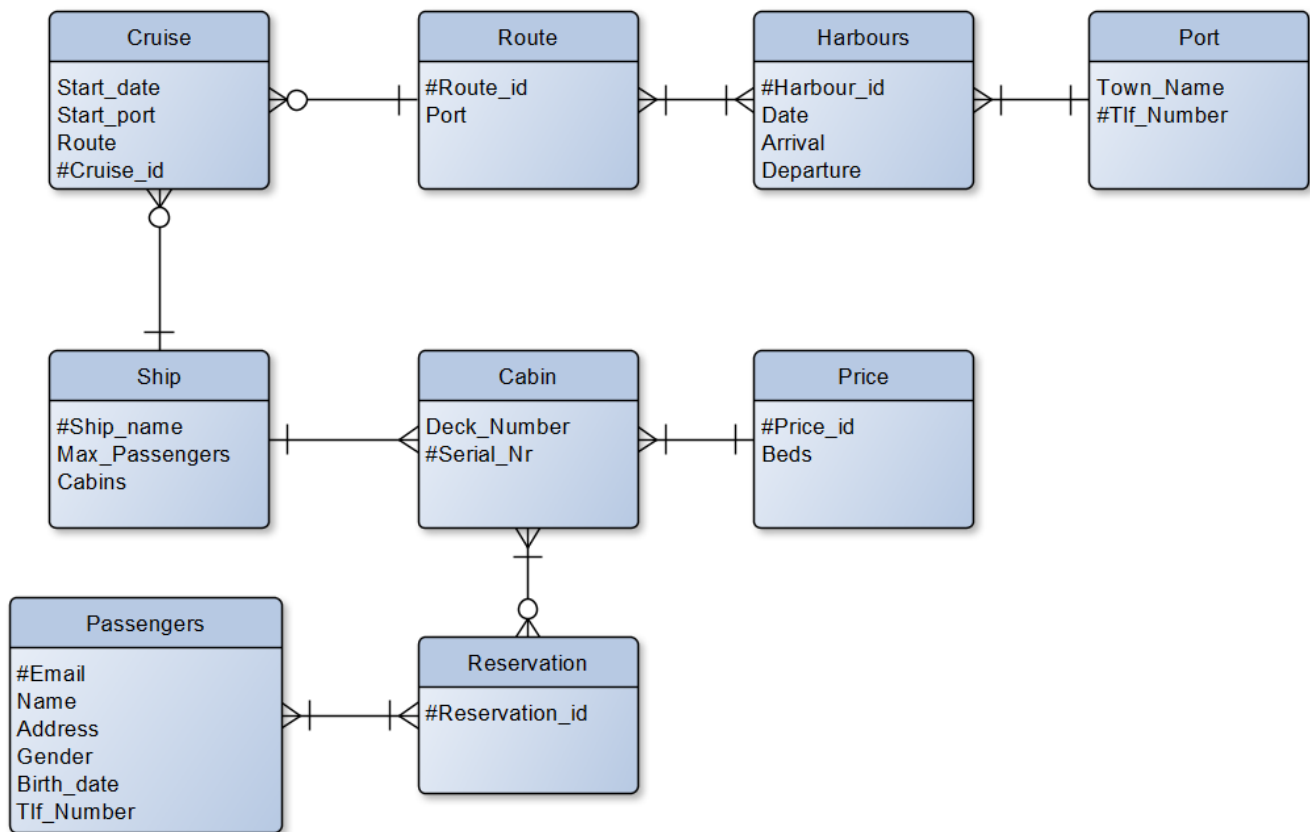
Chromosome(#chromosome_id, chromosome_name*, chromosome_length)

Synonyms(#gene_id, synonym)

References(#reference_id, title, journal, year_published)

Authors(#author, reference_id*)

Oppgave 4.



Oppgave 5.

I)

Mangler primærnøkkel (burde brukt registration_number).

Det vil vere problematisk fordi Truck-tabellen inneheld Assignment_number, og dermed blir det vanskelig å gi ein gitt lastebil ein ny assignment.

ii)

Registration_number → Registration_year og Model → Maximum_weight.

lii)

Kandidatnøkkel for Truck kan vere 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_assignment(Registration_number*, assignment_number*)

Truck (#Registration_number, Registration_year, Model*)

Truck_Model(#Model, Maximum_weight)