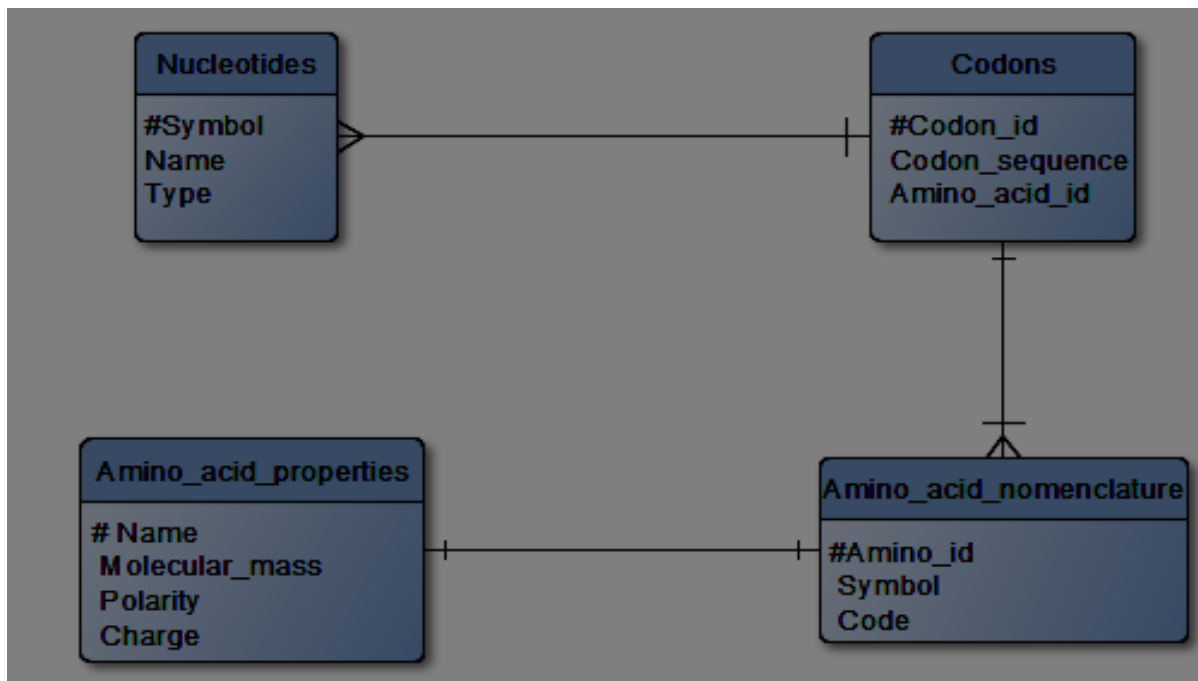


Oppgave 1.

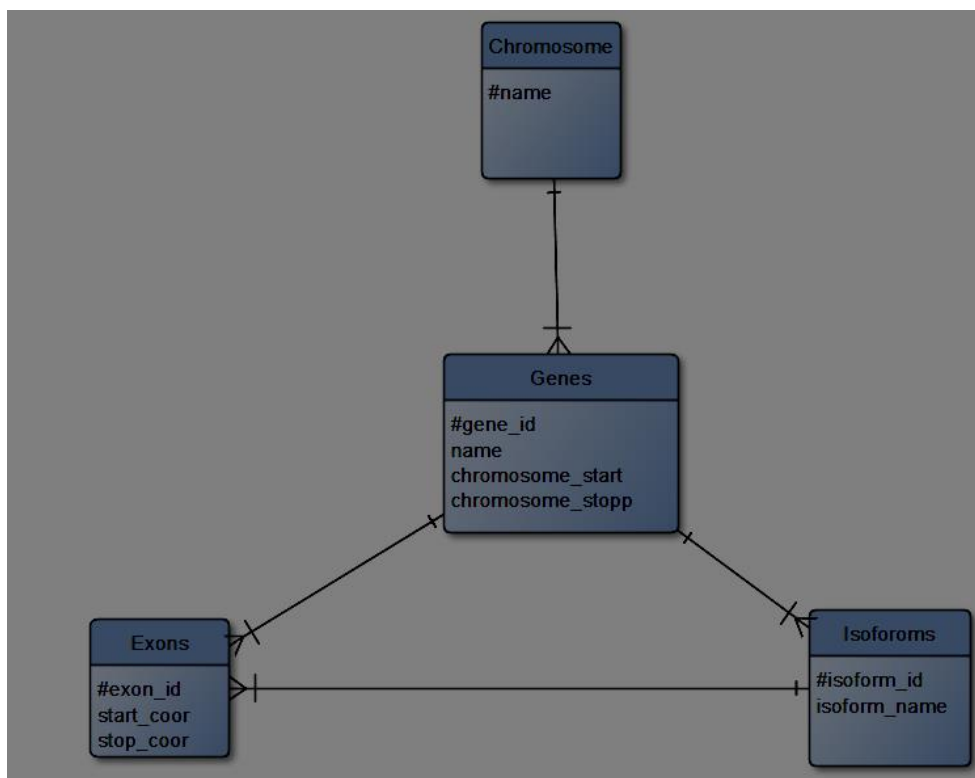


Oppgave 2.

a)

Gener, Exons og Isoforms.

b)



c)

Genes(#gene_id, gene_name, chromosome_start, chromosome_stop)

Exons(#exon_id, start_coor, stop_coor,)

Isoforms(#isoform_id, isoform_name)

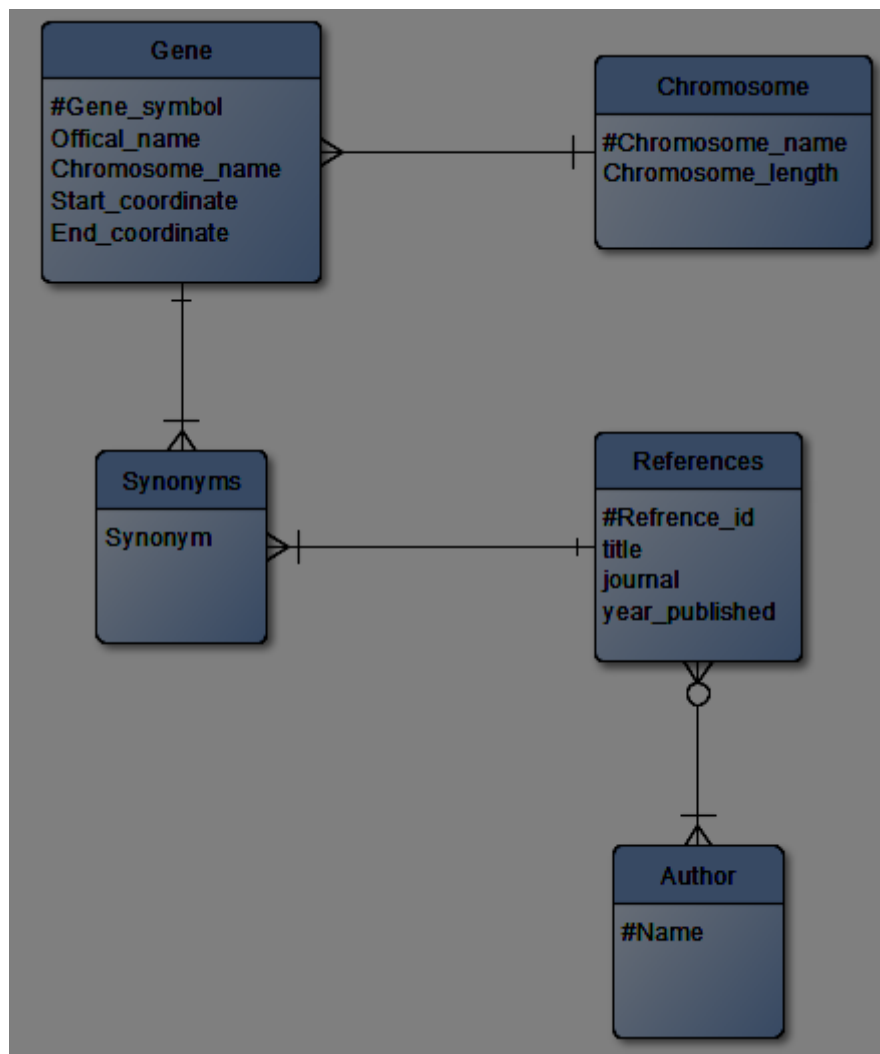
Chromosome(#Name)

Oppgave 3.

a)

Gener, Chromosome, Synonym, Referanser og Author.

b)



c)

Genes(#Gene_symbol, Offical_name, *Chromosome_name, Chromosome_length, Start_coordinate, End_coordinate)

References(#Refrence_id, title, journal, year_published, Author)

Synonyms(Synonym, #gene_id)

d)

Genes(#Gene_symbol, Official_name, Start_coordinate, End_coordinate)

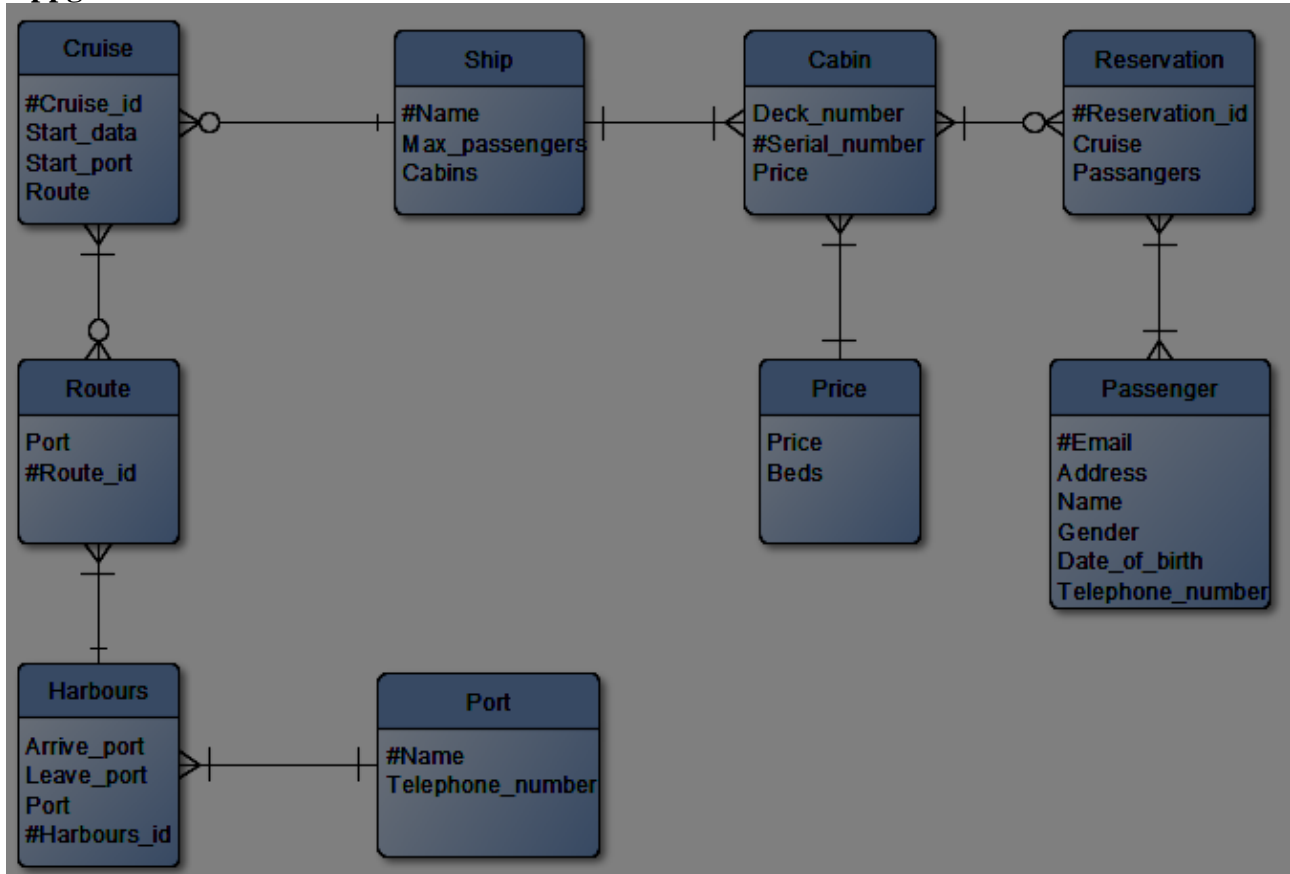
References(#Refrence_id, title, journal, year_published)

Synonyms(Synonym, #gene_id)

Author(#Name, *Refrence_id)

Chromosome(*Chromosome_name, Chromosome_length, #Chromosome_id)

Oppgave 4.



Oppgave 5.

a)
Problematikken her er at Truck-tabellen mangle primærnøkkel og flere av attributtene ikke er avhengig av bestillingen.

b)
Registration_number --> Registration_year og Model --> Maximum_weight.

c)
Registration_number

d)

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)

Markus Medalen Innlevering 2

Truck (#Registration_number, Registration_year)

Truck_model(#Model, Maximum_weight)

Truck_assignment(*Registration_number, Assignment_number*)