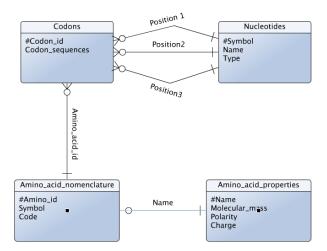
Innlevering Obligatorisk oppgave 2 Håvar Eggereide

Oppgave 1



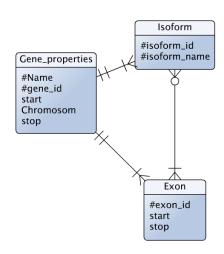
Oppgave 2

i)

Entities:

Gene, Exon, Isoform, Exon_Isoform_Connection

ii)



iii)

Chromosome(#Name)

Gene(#gene_id,#name, Chromosome*,start,stop)

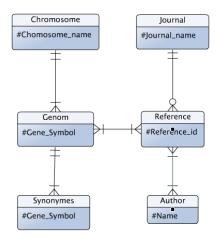
Exon(#Exon_id, start, stop, gene*, Isoform*)
Isoform(#isoform_id, #Isoform_name)
Exon Isoform Connection(#Isoform id, #Exon id)

Oppgave 3

i)

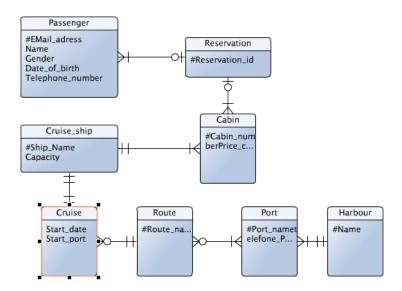
Genom, Synonymes, Chromosome, Journal, References, Author

ii)



iii)
Genom(#Gene_Symbol, #Official_name, Synonymes, Chromosome_name, Chromesome_length, start_coordinate, end_coordinate, references)
Genom_Reference(#Reference_id,#Gene_Symbol)
References(#Reference_id, title, journal, year_published)
Author(#Name)
Reference Author(#Reference id,#Author name)

iv)
Genom(#Gene_Symbol, Official_name, Chromosome, start_coordinate, end_coordinate)
Synonyme(#Synonyme, Gene_Symbol*)
Chromosome(#Chromesome_name, length)
Reference(#Reference_id, title, Journal*, year_published)
Genom_Reference(#Reference_id,#Gene_Symbol)
Author(#Author_name)
Reference Author(#Reference_id,#Author_name)



Oppgave5

i)

Den nye truck tabellen er problematisk fordi den har en attributt for oppdrag. Som vil lage redundans nå en truck blir tildelt ett nytt oppdrag.

ii)
Regstration number -> Registration year

Model -> Maximum_weight // gitt at enhver endring av vektkapasitet også er en endring av modeltypen eks: "Volvo XL" blir til en "Volvo XL Extra Carry" om vektkapasiteten er økt...

iii)

kandidate key

Registration number, model

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, Started_on_assignment, Released from assignment)

Truck (#Registration number, Model*)

Registration(#Registration_number, Registration_year)

Truck model(#Model, Maximum weight)