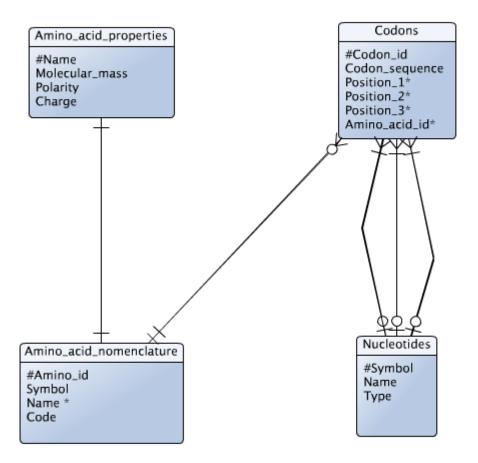
INF115 Obligatorisk Oppgave 2

Oppgave 1)



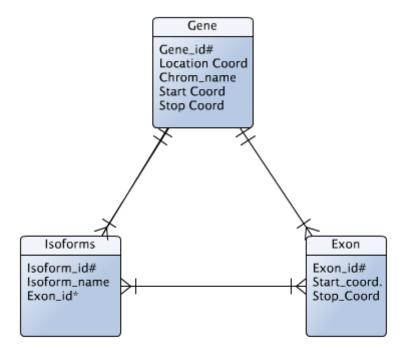
Oppgave 2

i)

Genes(#Gene_id, Name, Location, Chromosome_name, Start_coord, Stop_coord)

Exon(#Exon_id, Start_coord, Stop_coord)

Isoform(#Isofrom_id, Isoform_name)



iii)

Genes(#Gene_id, Name, Location, Chromosome_name, Start_coord, Stop_coord)

Exon(#Exon_id, Start_coord, Stop_coord)

Isoform(#Isofrom_id, Isoform_name)

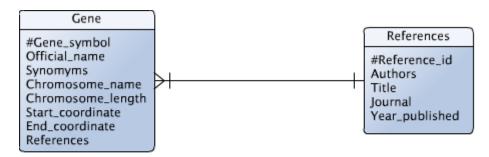
Isoform_exon(#Isoform_id, #Exon_id)

Oppgave 3

i)

Gene(#Gene_symbol, Official_name, Synonyms, Chromosome_name, Chromosome_length, Start_coordinate, End_coordinate, References

Reference(#Reference_id, Authors, Title, Journal, Year_published)



iii)

Gene(#Gene_symbol, Official_name, Chromosome_name, Chromosome_length, Start_coordinate, End_coordinate, Reference

Reference(#Reference_id, Authors, Title, Journal, Year_published)

Synonyms(#Gene_symbol, Names)

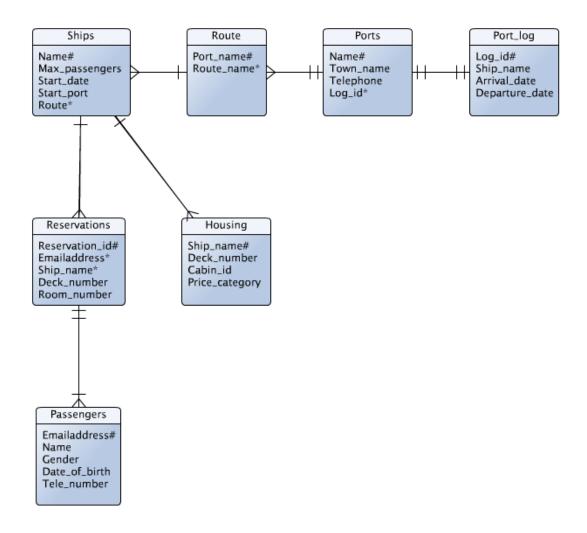
iv)

Gene(#Gene_symbol, Official_name, Chromosome_name*, References*)

Reference(#Reference_id, Authors, Title, Journal, Year_published)

Synonyms(#Gene_symbol, Names)

Chromosome(#Chromosome_name, Start_coordinate, End_coordinate, Chromosome_length)



Oppgave 5

i)

- -Truck table isn't given a primary key
- Truck model should be in its own table with the max_weight attribute
- A truck can only have one assignment

ii)

Registration_number → Registration_year, Assignment_number

Model → Maximum Weight

```
iii)

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*, Maximum_weight, Assignment_number*)
```

Model_Weight(#Model, Maximum_weight)