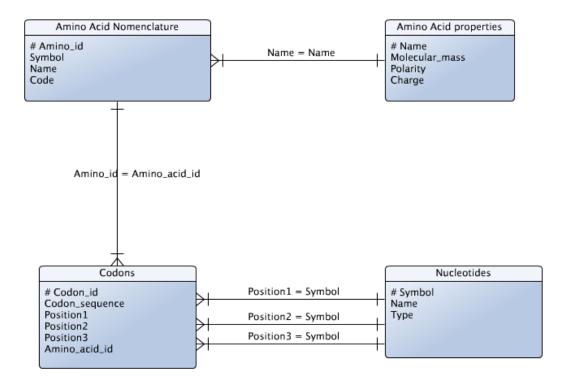
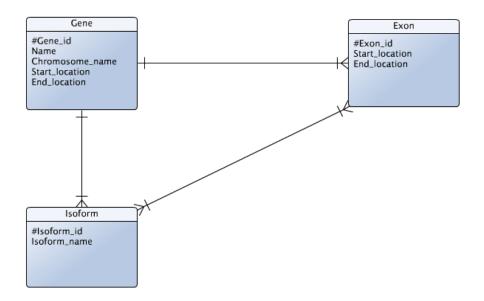
OPPG 1:



OPPG 2.1:

Gene(), Isoform(), Exon()

OPPG 2.2:



OPPG 2.3:

Tolker oppg som at bade gene_id og gene_name er unike.

Gene(#Gene_id, Chromosome_name, Start_location, Stop_location)

Gene_name(#Gene_name, Gene_id*)

Exon(#Exon_id, Start_location, Stop_location, Gene_id*)

Isoforom(#Isoform_id, Isoform_name, Gene_id*)

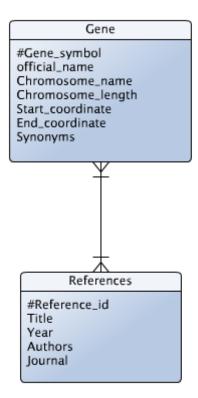
Gene_exons(#Exon_id*, #Isoform_id*)

OPPG 3.1:

Gene(), References()

OPPG 3.2:

Et gen kan ikke sies å være anerkjent før det eksisterer minst ett referanseverk (artikkel) som forteller om funnet der det er oppgitt et generelt godkjent navn for genet.



OPPG 3.3:

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

Synonyms(# Synonym, #Gene_symbol*)

Reference (# Reference_id, #Gene_id*, Title, Journal, Year)

Authors(#Referance_id*, #author_name)

OPPG 3.4: 3.3 med BCNF

Gene (#Gene_symbol, Start_coordinate, End_coordinate, Chromosome_name*)

Gene_name(#Official_name, Gene_symbol*)

Cromosome (#Chromosome_name, Chromosome_length)

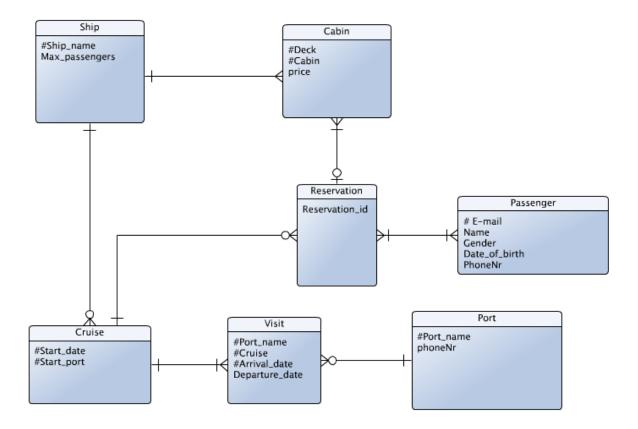
Synonyms(# Synonym, #Gene_symbol*)

Reference(#reference_id Title, Journal, Year))

Gene_reference(#Reference_id,* #Publication*)

Authors(#Referance_id*, #author_name)

OPPG 4



OPPG 5.1:

En av grunnene til at dette er et problematisk forslag er at Truck ikke har noen primærnøkkel.

OPPG 5.2:

Registration_number -> Registration_year

Registration_number -> Model

Registration_number -> Maximum_weight

Model -> Maximum_weight

OPPG 5.3:

Vi må sette sammen Reistration_number og Assignment_number for å få en unik primærnøkkel. Registration_number alene gir oss all nyttig informasjon om bilen, og for en klasse Truck (som bare holder informasjon om en truck), ville jeg ha valgt kun denne som primærnøkkel.

OPPG 5.4:

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)

Truck_weight(#Registration_number*, Maximum_weight)

Delivery(#Assignment_number*, #registration_number*)