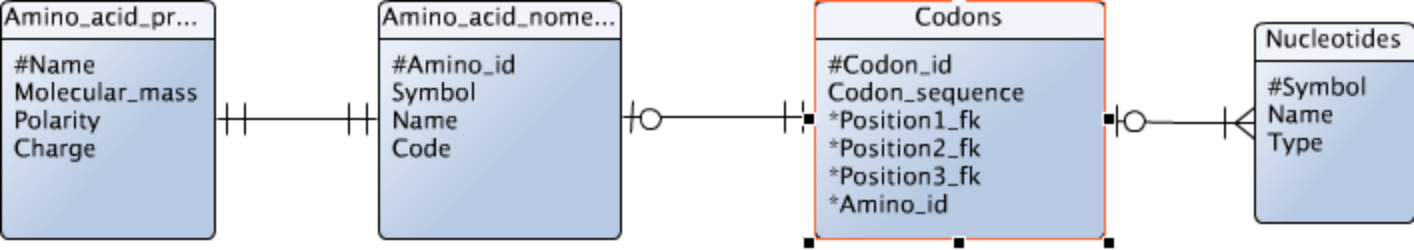
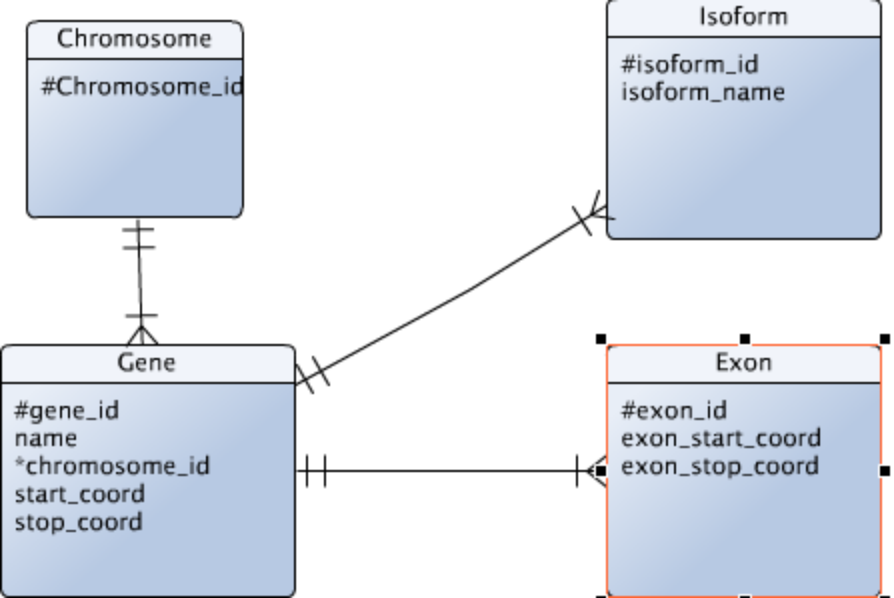
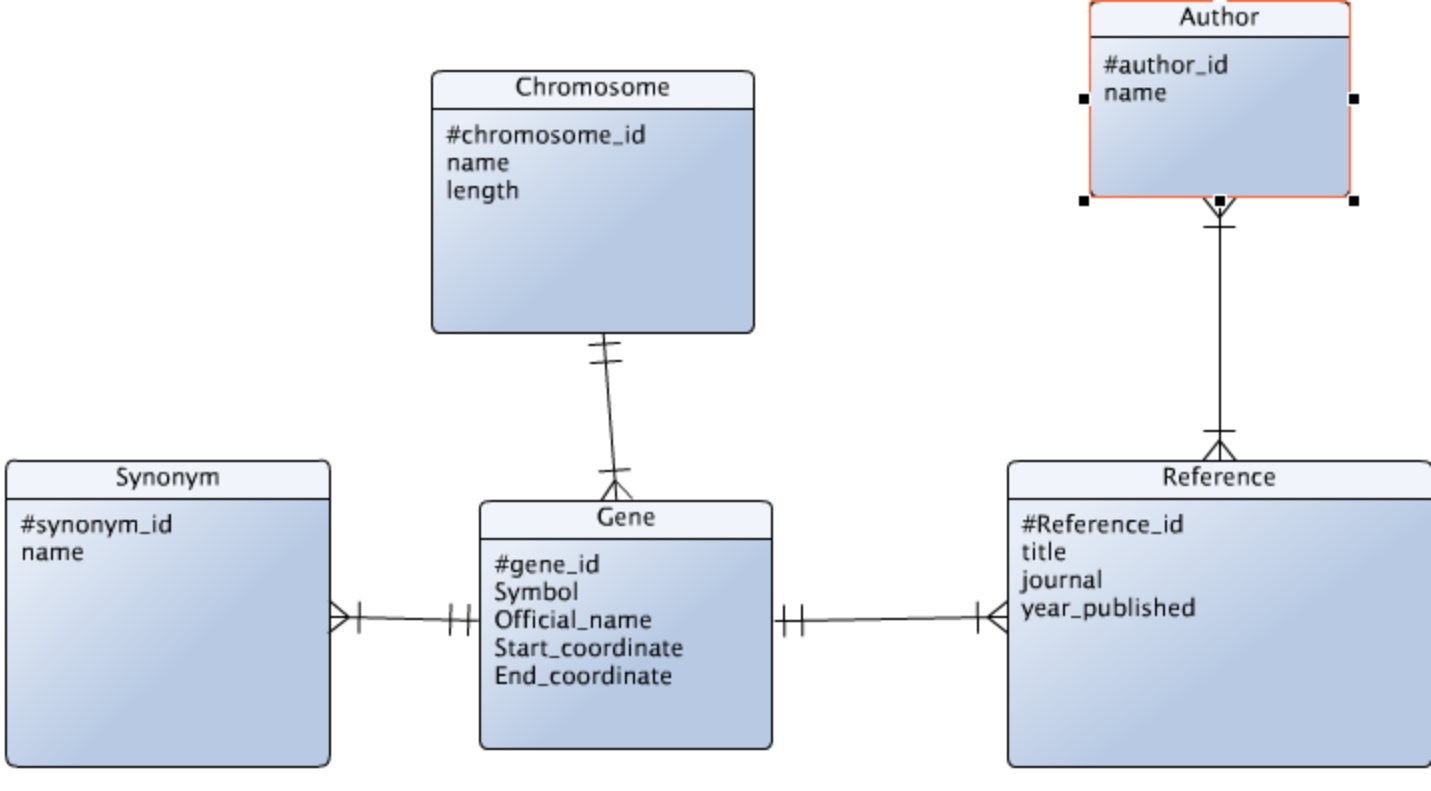
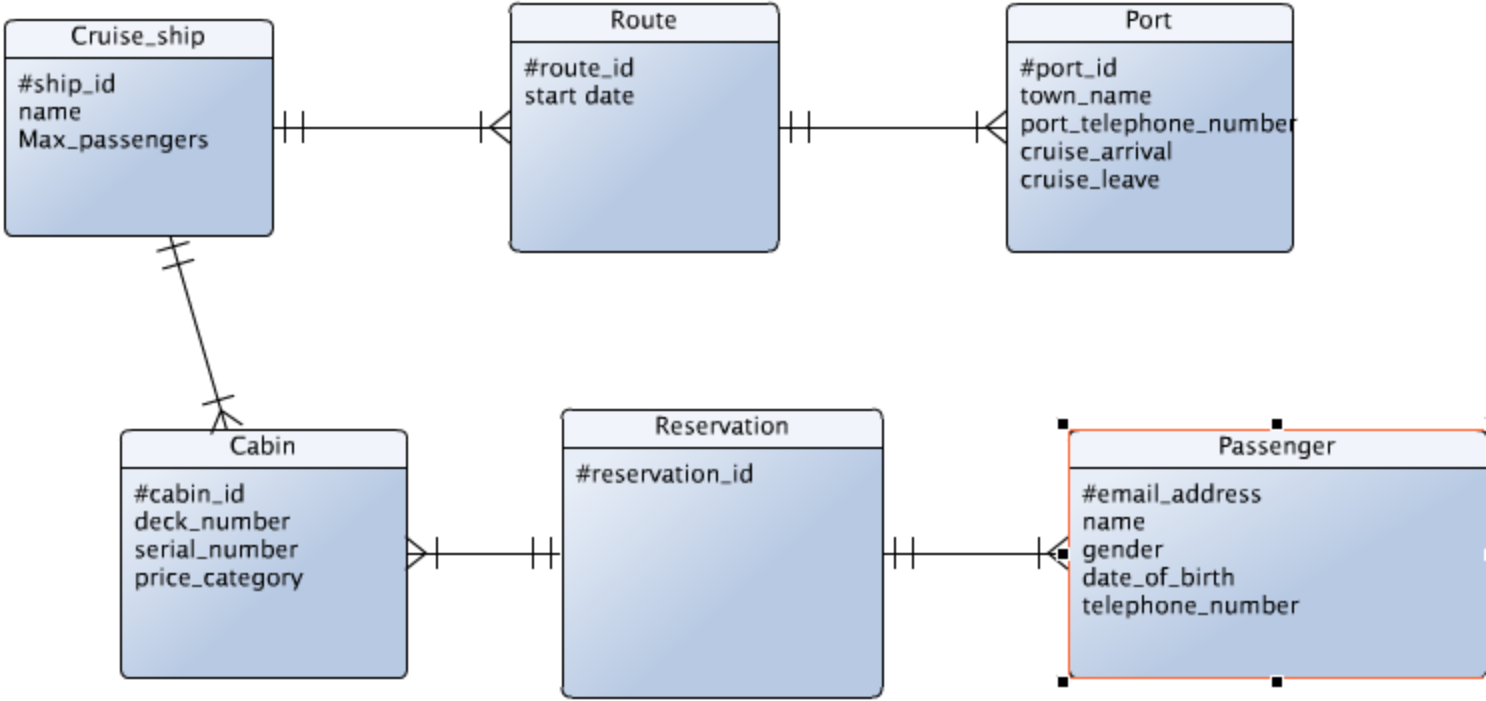

Amino_acid_pr...
#Name
Molecular_mass
Polarity
Charge
Amino_acid_nome...
#Amino_id
Symbol
Name
Code
Codons
#Codon_id
Codon_sequence
*Position1_fk
*Position2_fk
*Position3_fk
*Amino_id
Nucleotides
#Symbol
Name
Type


Chromosome
#Chromosome_id
Isoform
#isoform_id
isoform_name
Gene
#gene_id
name
*chromosome_id
start_coord
stop_coord
Exon
#exon_id
exon_start_coord
exon_stop_coord


Author
#author_id
name
Chromosome
#chromosome_id
name
length
Synonym
#synonym_id
name
Gene
#gene_id
Symbol
Official_name
Start_coordinate
End_coordinate
Reference
#Reference_id
title
journal
year_published


Cruise_ship
#ship_id
name
Max_passengers
Route
#route_id
start date
Port
#port_id
town_name
port_telephone_number
cruise_arrival
cruise_leave
Cabin
#cabin_id
deck_number
serial_number
price_category
Reservation
#reservation_id
Passenger
#email_address
name
gender
date_of_birth
telephone_number

Oppgave 2:
i)
Chromosome, Gene, exon, isoform

iii)
Chromosome (#chromosome_id, chromosome_name)
Gene (#gene_id, name, chromosome_loc, start_coord, stop_coord, *chromosome_id)
Exon (#exon_id, start_coord, stop_coord, *gene_id)
Isoform (#isoform_id, isoform_name, *gene_id)

Oppgave 3:
i)
Gene, Synonym, Reference

iii)
Gene (#gene_id, Symbol, Offical_name, Start_coordinate, End_coordinate, chromosome_name, chromosome_length)
Synonym(#synonym_id, name, *gene_id)
Reference (#Reference_id, authors, title, journal, year_published, *gene_id)

iv)
Gene (#gene_id, Symbol, Offical_name, Start_coordinate, End_coordinate)
Chromosome (#Chromosome_name, length, *gene_id)
Reference (#reference_id, title, *gene_id)
Journal (#journal_id, year_published, *reference_id)
Author (#author_id, name, *reference_id)
Synonym (#synonym_id, name, *gene_id)

Oppgave 5:

i) It lacks primary key.
If a table don't have a primary key then there can be duplicates in the database.

ii)
maximum_weight is functionally dependant on model

iii) Registration_number is a candidate key

iv)

Container_type (#Type_id, Type_name)
Container_max_weight(#Max_weight, type_id*)
Container__quantity(#Cubic_quantity, type_id*)
Container_nightly_rate(#Nightly_rate, type_id*)
Container (#Container_number, Type_id*)
Customer (#Telephone_number, Address)
Assignment (#Assignment_number, Telephone_number*, Container_number*)
Time_span(#Start_date, #End_date, Assignment_number*)
Truck (#Registration_number, Assignment_number*)
Truck_weight(#maximum_weight, Registration_number*)
Truck_model(#model, Registration_number*)
Truck_registration_year(#Registration_year, Registration_number*)