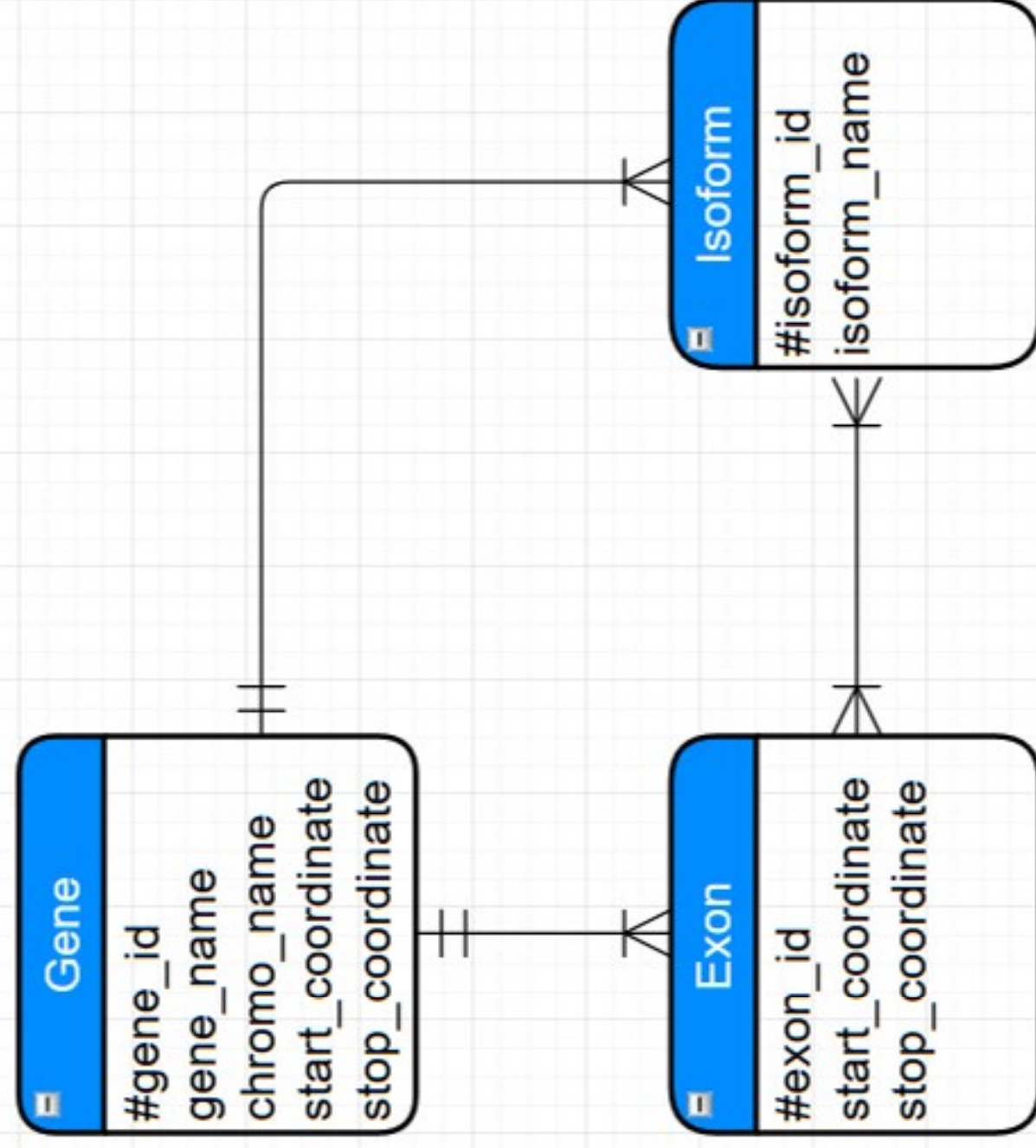


Oppgave 2.

i) Entiteter: Exon, Isoform, Gene.

ii)

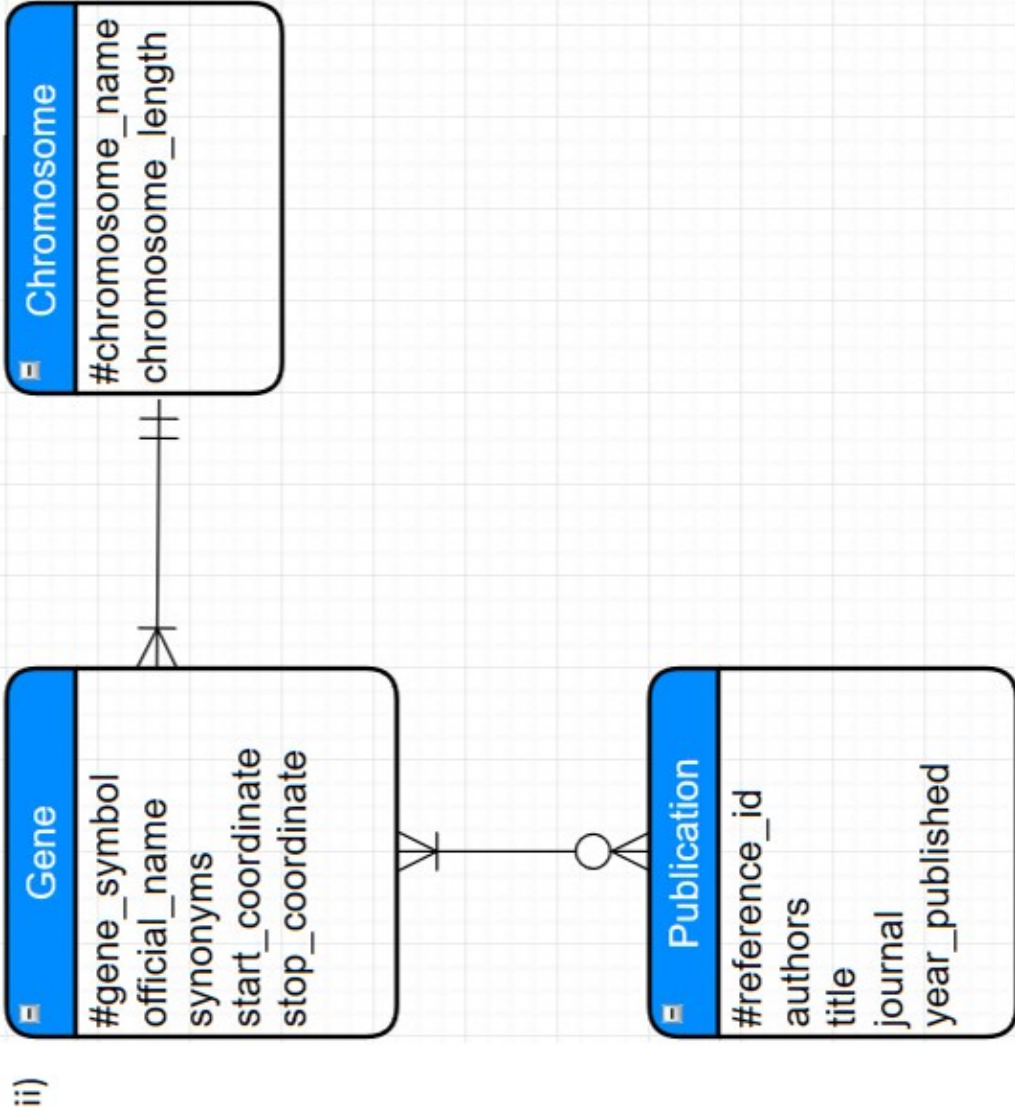


iii)

```
Gene(#gene_id, gene_name, exon_id*, isoform_id*, chromosome_name)
Gene_coordinate(#gene_id*, start_coordinate, stop_coordinate)
Exon(#exon_id, start_coordinate, stop_coordinate)
Isoform(#isoform_id, isoform_name)
Isoform_value(#isoform_id, exon_id*)
```

Oppgave 3

i) Entiteter: Gene, Chromosome, Publication



iii)

Chromosome(#chromosome_name, chromosome_length, gene_symbol*)

Gene(#gene_symbol, official_name, synonym, chromosome_name*, start_coordinate, stop_coordinate)

Publication(#reference_id, author, title, journal, year_published, gene_symbol*)

iv)

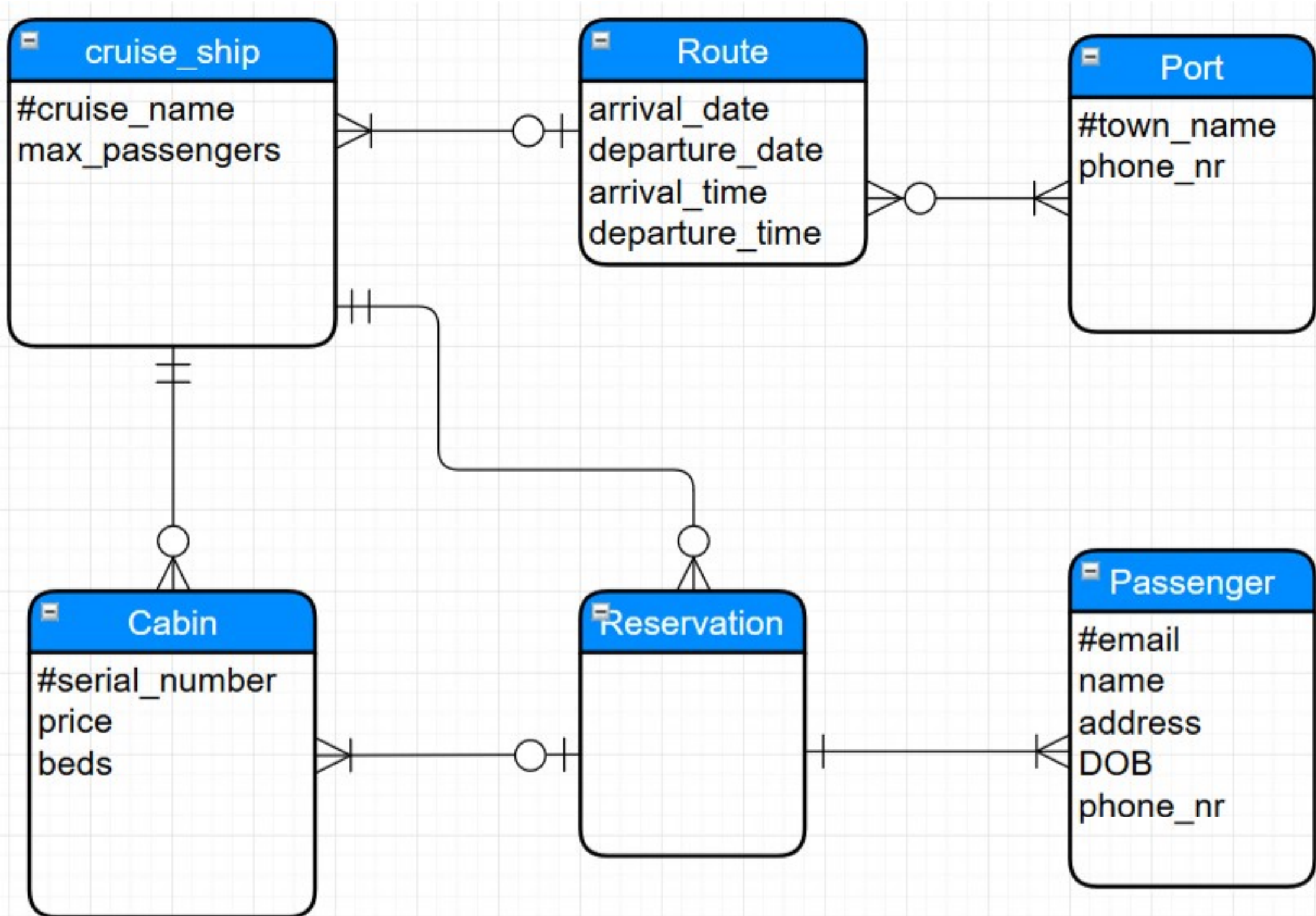
Chromosome(#chromosome_name, chromosome_length)

Gene(#gene_symbol, official_name, chromosome_name*)

Gene_synonym(#synonym, gene_symbol*)

Gene_coordinate(#gene_symbol*, start_coordinate, stop_coordinate)

Publication(#reference_id, title, journal, year_published, author, gene_symbol*)



Oppgave5

i) Ingen primærnøkkel

ii)

Registration_number bestemmer reg_year

Model bestemmer max_weight

Registration_number og Assignment_number bestemmer de andre kolonnene.

iii)

Kandidatnøkkel for Truck:

Registration_number + Assignment_number

iv)

Container_type(#type_id, type_name, max_weight, cubic_quantity, nightly_rate)

Container(#container_nr, type_id*)

Customer(#phone_nr, address)

Assignment(#assignment_nr, phone_nr*, container_nr*, start_date, end_date)

Truck(#Registration_number, #Assignment_number*, Model)

Model(#model_name*, max_weight)

RegYear(#Registration_number*, year)