Assumptions

General

- 1. Names of country are Varchar of size 20
- 2. All types of namings (eg. Companies, person, ships) are Varchar of size 20
- 3. All ID's are of Numeric with precision 7

Operator

- 1. opt_id precision 4
- This is because it's safe to assume that there won't be more than a 1000 different ship operators in the world.

SHIP

- 1. ship_tonnage precision 6
- the heaviest cruise ship in the world weights 236,857 tonnes
- also, most big cruise ships weigh around this 6 digit mark
- 2. ship_max_guest_cap precision 5
- the biggest cruise ship in the world could hold up to 9,000 passsengers. Hence, we've used a
 precision of 5 to prepare for the next biggest cruise ship that can hit a capacity of 10,000
 passengers

CABIN

- 1. cabin_number Varchar size 5
- the largest cruise ship in the world has up to 2,867 cabins. Furthermore, since in Assingment 1 an example of cabin number would be eg. D1, therefore a Varchar of size 5 would allow for a single alphabet followed by up to 4 numerics.
- 2. cabin_capacity precision 2
- the largest cabin on a cruise would possibly store at most 99 people (the staff's cabin)
- 3. cabin_class precision 10
- the cabin class that has the longest name is ocean view, which is of length 10

Assumptions

PORT

- 1. port_code precision 4
- there are over 1,200 cruise ports in the world
- 2. port_longitude and port_latitude
- the number of digits after the decimal point is a fixed 7 digits
- the number of digits before the decimal point ranges

PASSENGER

- 1. pasenger_phone_no
- since the phone number length of these passengers may vary from country to country, we set Varchar of size 20
- the longest number would be15, excluding the prefix of the
- having to include the country code, the size of 20 would be the safest

PORT_TOUR

- 1. tour_cost_per_person precision 6, scale 2
- we allow the tours cost to go up to a 1000, which is unlikely but possible.
- we also allow for decimal values eg. 100.50, which is possible for cost that includes service charge