

Assumptions:

1. We are assuming a system to track cruise activities.
2. The number of Booked relationships will be used to calculate Passengers on any given trip.
3. Cruise line is a 1:n relationship with cruise ships.
4. We are using cruise line as an entity for all cruise lines, including the line we are creating this database for (a majority of the time, the cruise line ID will be our cruise line, but whenever another line's ship is borrowed, an alternative ID will be used).
5. We are assuming a trip can be used by one or more ships at a time.
6. Trip distance is the derived sum of all leg distances.
7. Expected passengers will be calculated by counting the amount of passengers that have the booked relationship per each respective trip.
8. Passenger capacity would be required upon creation of a new cruise ship.
9. Each cruise line can have n amount of ships.