STUDENT NAME: OOI HUI XIA

STUDENT ID: 33590966

- 1. Passenger Contact Number
- Only adult passengers have their contact phone numbers recorded.
- For minors, no phone number is recorded; their guardian's contact is used instead.
- The phone number is stored as a simple attribute in the PASSENGER entity.
- 2. Guardian Relationship
- A passenger can have zero or one guardian.
- A guardian can be responsible for one or more passengers.
- The guardian relationship is represented by a foreign key guardian_id in the PASSENGER entity.
- 3. Address Association
- Each passenger is linked to one address.
- Each address belongs to one country.
- Address details (street, town, postcode) are stored in a separate ADDRESS entity.
- 4. Cabin Identification
- Cabins are uniquely identified by a composite key: ship code + cabin no.
- This allows cabin numbers to be reused on different ships.
- 5. Cruise Itinerary
- Each cruise can have multiple ports in its itinerary.
- An itinerary is uniquely identified using the combination of cruise_id, port_code, and itinerary_date_time.
- 6. Cabin Occupancy
- A cabin can be assigned to multiple passengers as long as the total number does not exceed the cabin sleep cap (sleeping capacity).
- Cabin assignment is recorded in the MANIFEST INSTANCE entity.
- 7. Cabin Classes
- Cabin classes are fixed and include: Interior, Ocean View, Balcony, and Suite.
- These are stored as a simple attribute in the CABIN entity and are not modeled as a separate entity.
- Use check constraint for the classes
- 8. Country Relationships
- Each port and each address is associated with exactly one country via country code.
- The relationship to COUNTRY is maintained through foreign keys in both PORT and ADDRESS entities.