

STUDENT NAME: OOI HUI XIA

STUDENT ID: 33590966

UNF

CRUISE (cruise_id, cruise_name, cost_per_person, (port_code, port_name, port_latitude, port_longitude, country_code, country_name, departure_arrival, date_time))

1NF

CRUISE (cruise_id, cruise_name, cost_per_person)

CK: cruise_id

ITINERARY (cruise_id, port_code, date_time, port_name, port_latitude, port_longitude, country_code, country_name, departure_arrival)

CKs:

- cruise_id, port_code, date_time
- cruise_id, port_code, departure_arrival

Partial dependencies:

port_code -> port_name, port_latitude, port_longitude, country_code, country_name

2NF

CRUISE (cruise_id, cruise_name, cost_per_person)

ITINERARY (cruise_id, port_code, date_time, departure_arrival)

PORT (port_code, port_name, port_latitude, port_longitude, country_code, country_name)

Transitive dependencies:

country_code -> country_name

3NF

CRUISE (cruise_id, cruise_name, cost_per_person)

ITINERARY (cruise_id, port_code, date_time, departure_arrival)

PORT (port_code, port_name, port_latitude, port_longitude, country_code)

COUNTRY (country_code, country_name)

FULL DEPENDENCIES:

cruise_id -> cruise_name, cost_per_person

cruise_id, port_code, date_time -> departure_arrival

port_code -> port_name, port_latitude, port_longitude, country_code

country_code -> country_name