## UNF

CRUISE(cruise\_id, cruise\_name, cruise\_cost\_pp, (port\_code, port\_name, port\_lat, port\_long, country\_code, country\_name, depart\_arrive, date\_time))

## 1NF

CRUISE(cruise\_id, cruise\_name, cruise\_cost\_pp)

CKs:

cruise\_id

cruise\_name

ITENARY(port\_code, port\_name, port\_lat, port\_long, country\_code, country\_name, depart\_arrive, date\_time)

CKs:

port\_code

port\_name

### Partial Dependencies:

port\_code -> port\_name, port\_lat, port\_long, country\_code, country\_name

## 2NF

CRUISE(cruise\_id, cruise\_name, cruise\_cost\_pp)

PORT(port\_code, port\_name, port\_lat, port\_long, country\_code, country\_name)

ITINERARY(cruise\_id, port\_code, depart\_arrive, date\_time)

### Transitive Dependencies:

country\_code -> country\_name

## 3NF

CRUISE(cruise\_id, cruise\_name, cruise\_cost\_pp)

PORT(port\_code, port\_name, port\_lat, port\_long, country\_code)

ITINERARY(cruise\_id, port\_code, depart\_arrive, date\_time)

COUNTRY(country\_code, country\_name)

### Full Dependencies:

cruise\_id -> cruise\_name, cruise\_cost\_pp

port\_code -> port\_name, port\_lat, port\_long, country\_code

cruise\_id, port\_code -> depart\_arrive, date\_time

country\_code -> country\_name

No attribute synthesis was performed as it was deemed unnecessary.