Port Tours Available

UNF

```
PORT_TOUR_AVAIBLE( port_code, port_name, country_code, country_name, ( port_temp_mth, port_temp_avg_high, port_temp_avg_low), (tour_no, tour_name, tour_desc, tour_hours, tour_cost, tour_wheel_chair, tour_availablility, tour_start_time))
```

1NF

```
PORT_TOUR_AVAIBLE( <a href="mailto:port_code">port_name</a>, <a href="mailto:code">country_code</a>, <a href="mailto:code">cou
```

PORT TEMPERATURE(port code, port temp mth, port temp avg high, port temp avg low)

TOUR_AVAILABLE(<u>port_code</u>, <u>tour_no</u>, tour_name, tour_desc, tour_hours, tour_cost, tour_wheel_chair, tour_availablility, tour_start_time)

Partial Dependencies:

No Partial Dependencies

2NF

```
PORT_TOUR_AVAIBLE( <a href="mailto:port_code">port_name</a>, <a href="mailto:code">country_code</a>, <a href="mailto:code">cou
```

PORT_TEMPERATURE(port_code, port_temp_mth, port_temp_avg_high, port_temp_avg_low)

TOUR_AVAILABLE(<u>port_code</u>, <u>tour_no</u>, tour_name, tour_desc, tour_hours, tour_cost, tour_wheel_chair, tour_availablility, tour_start_time)

Transitive Dependencies:

country_code --> country_name

3NF

```
PORT_TOUR_AVAIBLE( <a href="mailto:port_code">port_name</a>, country_code)
```

COUNTRY(<u>country_code</u>, country_name)

```
PORT_TEMPERATURE( <a href="mailto:port_code">port_code</a>, <a href="port_code">port_code</a>, <a href="port_code">port_code</a>, <a href="port_code">port_code</a>, <a href="port_code">port_code</a>, <a href="port_code">port_code</a>, <a href="port_code">tour_no</a>, <a href="port_code">tour_code</a>, <a hre
```

Full Dependencies:

```
port_code --> port_name, country_code
country_code --> country_name
port_code, port_temp_mth --> port_temp_avg_high, port_temp_avg_low
port_code, tour_no --> tour_name, tour_desc, tour_hours, tour_cost, tour_wheel_chair, tour_availablility, tour_start_time
```

Port – Tour Participant Report

UNF

TOUR(port_code, tour_no, tour_name, tour_date, tour_start_time, (passenger_id, passenger_name, passenger_language, cruise_id, cruise_name, payment_received))

1NF

TOUR(port_code, tour_no, tour_date, tour_name, tour_start_time)

Participant(<u>port code</u>, <u>tour no</u>, <u>tour date</u>, <u>passenger id</u>, <u>passenger_name</u>, <u>passenger_language</u>, <u>cruise_id</u>, <u>cruise_name</u>, <u>payment_received</u>)

Partial Dependencies:

passenger_id --> passenger_name, passenger_language

Port_code, tour_no --> tour_name, tour_start_time

2NF

```
TOUR( port code, tour no, tour date)
TOUR DETAIL( port code, tour no, tour name, tour start time)
PARTICIPANT( port code, tour no, tour date, passenger id, cruise id, cruise name,
payment received)
PASSENGER( passenger id, passenger name, passenger language)
Transitive Dependencies:
cruise id --> cruise name
3NF
TOUR( port code, tour no, tour date, tour name, tour start time)
TOUR DETAIL( port code, tour no, tour name, tour start time)
PARTICIPANT( port code, tour no, tour date, passenger id, cruise id, payment received)
CRUISE( cruise id, cruise name)
PASSENGER (passenger id, passenger name, passenger language)
Full Dependencies:
port code, tour no --> tour name, tour start time
port code, tour no, tour date, passenger id --> cruise id, payment received
cruise id --> cruise name
passenger id --> passenger name, passenger language
COLLECTED 3NF RELATIONS:
1.PORT_TOUR_AVAIBLE( <a href="mailto:port_code">port_name</a>, <a href="mailto:code">country_code</a>)
2.COUNTRY( country code, country name)
3.PORT TEMPERATURE( port code, port temp mth, port temp avg high,
port temp avg low)
```

```
4.TOUR AVAILABLE( port code, tour no, tour name, tour desc, tour hours, tour cost,
tour wheel chair, tour availablility, tour start time)
5.TOUR( port code, tour no, tour date)
6.TOUR DETAIL( port code, tour no, tour name, tour start time)
7.PARTICIPANT( port code, tour no, tour date, passenger id, cruise id, payment received)
8.CRUISE( cruise id, cruise name)
9.PASSENGER( passenger id, passenger name, passenger language)
ATTRIBUTE SYNTHESIS
1.
PORT TOUR AVAIBLE(port code, port name, country code)
2.
COUNTRY( country code, country name)
3.
PORT TEMPERATURE( port code, port temp mth, port temp avg high, port temp avg low)
4. & 6.
TOUR AVAILABLE( port code, tour no, tour name, tour desc, tour hours, tour cost,
tour wheel chair, tour_availablility, tour_start_time)
5.
TOUR( port code, tour no, tour date)
7.
PARTICIPANT( port code, tour no, tour date, passenger id, cruise_id, payment_received)
8.
CRUISE( cruise id, cruise name)
9.
PASSENGER( passenger id, passenger name, passenger language)
```