PORT TOURS FORM

**UNF**

PORT (port\_code, port\_name, country\_code, country\_name, (temp\_month, temp\_high, temp\_low), (tour\_no, tour\_name, tour\_description, tour\_hrs\_required, tour\_costpp, tour\_wheelchair\_access, tour\_availability, tour\_start))

**1NF**

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

TEMP (port\_code, temp\_month, temp\_high, temp\_low)

TOUR (port\_code, tour\_no, tour\_name, tour\_description, tour\_hrs\_required, tour\_costpp, tour\_wheelchair\_access, tour\_availability, tour\_start)

Partial Dependencies:

No partial dependencies present

**2NF**

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

TEMP (port\_code, temp\_month, temp\_high, temp\_low)

TOUR (port\_code, tour\_no, tour\_name, tour\_description, tour\_hrs\_required, tour\_costpp, tour\_wheelchair\_access, tour\_availability, tour\_start)

Transitive Dependencies:

country\_code -> country\_name

**3NF**

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

TEMP (port\_code, temp\_month, temp\_high, temp\_low)

TOUR (port\_code, tour\_no, tour\_name, tour\_description, tour\_hrs\_required, tour\_costpp, tour\_wheelchair\_access, tour\_availability, tour\_start)

COUNTRY (country\_code, country\_name)

Full Dependencies:

Port\_code -> port\_name, country\_code

Port\_code, temp\_month -> temp\_high, temp\_low

Port\_code, tour\_no -> tour\_name, tour\_description, tour\_hrs\_required, tour\_costpp, tour\_wheelchair\_access, tour\_availability, tour\_start

Country\_code -> country\_name

TOUR PARTICIPANTS FORM

**UNF**

PARTICIPANT\_REPORT (port\_code, date\_generated, tour\_no, tour\_name, tour\_date, tour\_start, (passenger\_id, passenger\_name, spoken\_lang, cruise\_id, cruise\_name, payment\_received))

**1NF**

PARTICIPANT\_REPORT(port\_code, date\_generated, tour\_no, tour\_name, tour\_date, tour\_start)

PASSENGER(passenger\_id, passenger\_name, spoken\_lang, cruise\_id, cruise\_name, payment\_received)

Partial Dependency:

Tour\_no -> tour\_name, tour\_date, tour\_start

**2NF**

PARTICIPANT\_REPORT(port\_code, date\_generated, tour\_no)

PASSENGER\_PAYMENT(passenger\_id, passenger\_name, spoken\_lang, cruise\_id, cruise\_name, payment\_received)

TOUR (tour\_no, tour\_date, tour\_start)

Transitive Dependency:

Cruise\_id -> cruise\_name

**3NF**

PARTICIPANT\_REPORT(port\_code, date\_generated, tour\_no)

PASSENGER(passenger\_id, passenger\_name, spoken\_lang, cruise\_id, payment\_received)

TOUR (tour\_no, tour\_date, tour\_start)

CRUISE (cruise\_id, cruise\_name)

Full Dependency:

passenger\_id -> passenger\_name, spoken\_lang, cruise\_id, payment\_received

cruise\_id -> cruise\_name

COLLECTED 3NF RELATIONS:

1. PORT (port\_code, port\_name, country\_code)
2. TEMP (port\_code, temp\_month, temp\_high, temp\_low)
3. TOUR (port\_code, tour\_no, tour\_name, tour\_description, tour\_hrs\_required, tour\_costpp, tour\_wheelchair\_access, tour\_availability, tour\_start)
4. COUNTRY (country\_code, country\_name)
5. PARTICIPANT\_REPORT(port\_code, date\_generated, tour\_no)
6. PASSENGER(passenger\_id, passenger\_name, spoken\_lang, cruise\_id, payment\_received)
7. TOUR (tour\_no, tour\_date, tour\_start)
8. CRUISE (cruise\_id, cruise\_name)

ATTRIBUTE SYNTHESIS

1.

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

2.

TEMP (port\_code, temp\_month, temp\_high, temp\_low)

3. & 7.

TOUR (port\_code, tour\_no, tour\_name, tour\_description, tour\_hrs\_required, tour\_costpp, tour\_wheelchair\_access, tour\_availability, tour\_start)

4.

COUNTRY (country\_code, country\_name)

5.

PARTICIPANT\_REPORT (port\_code, date\_generated, tour\_no)

6.

PASSENGER (passenger\_id, passenger\_name, spoken\_lang, cruise\_id, payment\_received)

8.

CRUISE (cruise\_id, cruise\_name)