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UNF

CRUISE(cruise\_id, cruise\_name, cruise\_cost, (port\_code, port\_name, port\_latitude, port\_longitude, country\_code, country\_name, depart\_type, depart\_datetime))

1NF

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

CKs: cruise\_id

PORT\_ITI(cruise\_id, port\_code, port\_name, port\_latitude, port\_longitude, country\_code, country\_name, depart\_type, depart\_datetime)

CKs:

cruise\_id, depart\_datetime

Partial dependency:

No partial dependencies present

2NF

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

PORT\_ITI(cruise\_id, port\_code, port\_name, port\_latitude, port\_longitude, country\_code, country\_name, depart\_type, depart\_datetime)

Transitive dependency:

Port\_code → port\_name, port\_latitude, port\_longitude

country\_code → country\_name

3NF

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

PORT\_ITI(cruise\_id, port\_code, country\_code, depart\_type, depart\_datetime)

PORT(port\_code, port\_name, port\_latitude, port\_longitude)

COUNTRY(country\_code, country\_name)

Full Dependencies:

cruise\_id → cruise\_name, cruise\_cost

cruise\_id, depart\_datetime → port\_code, country\_code, depart\_type

port\_code → port\_name, port\_latitude, port\_longitude

country\_code → country\_name

