TASK 2 Ocean Odyssey Normalisation

Table 2：

UNF：

Cruise (CruiseID, CruiseName, CostPerPerson, (PortCode, PortName, PortLatitude, PortLongitude, CountryCode, CountryName, DepartureArrival, DateTime))

1NF：

CRUISE (CruiseID, DateTime, PortCode, DepartureArrival, CruiseName, CostPerPerson, PortName, PortLatitude, PortLongitude, CountryCode, CountryName)

Candidate Keys: CruiseID, DateTime, PortCode, DepartureArrival

Primary Keys: CruiseID, DateTime, PortCode, DepartureArrival

Partial Dependencies:

CruiseID 🡪 CruiseName, CostPerPerson

PortCode 🡪 PortName, PortLatitude, PortLongitude, CountryCode

CountryCode 🡪 CountryName

2NF:

CRUISE (CruiseID, CruiseName, CostPerPerson)

VISIT (CruiseID, DateTime, PortCode, DepartureArrival)

PORT (PortCode, CountryCode, PortName, PortLatitude, PortLongitude, CountryName)

Transitive Dependencies:

CountryCode 🡪 CountryName

3NF：

CRUISE (CruiseID, CruiseName, CostPerPerson)

VISIT (CruiseID, DateTime, PortCode, DepartureArrival)

PORT (PortCode, PortName, PortLatitude, PortLongitude, CountryCode)

COUNTRY (CountryCode, CountryName)

FINAL 3NF：

CRUISE (CruiseID, CruiseName, CostPerPerson)

VISIT (CruiseID, DateTime, PortCode, DepartureArrival)

PORT (PortCode, PortName, PortLatitude, PortLongitude, CountryCode)

COUNTRY (CountryCode, CountryName)

Full Dependencies:

CruiseID 🡪 CruiseName, CostPerPerson

CruiseID, DateTime, PortCode, DepartureArrival 🡪 No other attributes

PortCode 🡪 PortName, PortLatitude, PortLongitude, CountryCode

CountryCode 🡪 CountryName