

Name: Cheuk Hin Chester Man

Cruise ID 1234  
Cruise Name Sydney Brisbane Getaway  
Cost per person \$810

Port Code	Port Name	Port Latitude	Port Longitude	Country code	Country Name	Departure/Arrival	Date/Time
AUSYD	Sydney	-33.865143	151.209900	AUS	Australia	Depart	19 Feb 2025 15:30
AUBNE	Brisbane	-27.470125	153.021072	AUS	Australia	Arrive	21 Feb 2025 07:00
AUBNE	Brisbane	-27.470125	153.021072	AUS	Australia	Depart	21 Feb 2025 17:00
AUSYD	Sydney	-33.865143	151.209900	AUS	Australia	Arrive	23 Feb 2025 08:00

## UNF

**CRUISE**(cruise\_id, cruise\_name, cruise\_cost\_per\_person, cruise\_departurearrival, cruise\_datetime, (port\_code, port\_name, port\_latitude, port\_longitude, country\_code, country\_name))

## 1NF

**CRUISE**(cruise\_id, cruise\_name, cruise\_cost\_per\_person, cruise\_departurearrival, cruise\_datetime)

Candidate keys:

cruise\_id

**PORT**(cruise\_id, port\_code, port\_name, port\_latitude, port\_longitude, country\_code, country\_name)

Candidate keys:

cruise\_id, port\_code

Partial dependencies:

cruise\_id → cruise\_name, cruise\_cost\_per\_person

## 2NF

**CRUISE**(cruise\_id, cruise\_departurearrival, cruise\_datetime)

**PORT**(cruise\_id, port\_code, port\_name, port\_latitude, port\_longitude, country\_code, country\_name)

**PRICE**(cruise\_id, cruise\_name, cruise\_cost\_per\_person)

Transitive dependencies:

country\_code → country\_name

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## 3NF

**CRUISE**(cruise\_id, cruise\_departurearrival, cruise\_datetime)

**PORT**(cruise\_id, port\_code, port\_name, port\_latitude, port\_longitude, country\_code, country\_name)

**PRICE**(cruise\_id, cruise\_name, cruise\_cost\_per\_person)

**COUNTRY**(country\_code → country\_name)

Full dependencies:

cruise\_id → cruise\_departurearrival, cruise\_datetime

cruise\_id, port\_code → port\_name, port\_latitude, port\_longitude, country\_code, country\_name

cruise\_id → cruise\_name, cruise\_cost\_per\_person

country\_code → country\_name