

Name: Cheuk Hin Chester Man

The image below shows the sample data instances.

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