



FIT2094 DATABASES
ASSIGNMENT 1
OCEAN ODYSSEY
NORMALISATION



Assignment 1 - Task 2 – Normalisation process

UNF

CRUISE (cruise_id, cruise_name, cost_pp (port_code, port_name, port_lat, port_longt, country_code, country_name, departure_arrival, date_time))

1NF

CRUISE (cruise_id, cruise_name, cost_pp)

Candidate key(s) : cruise_id

JOURNEY (cruise_id, date_time, port_code, port_name, port_lat, port_longt, country_code, country_name, departure_arrival)

Candidate key(s) : cruise_id, date_time

Partial dependency: None

2NF

CRUISE (cruise_id, cruise_name , cost_pp)

JOURNEY (cruise_id, date_time, port_code, port_name, port_lat, port_longt, country_code, country_name, departure_arrival)

Transitive dependency :

country_code → country_name

port_code → port_name, port_lat, port_longt, country_code

3NF

CRUISE (cruise_id, cruise_name , cost_pp)

JOURNEY (cruise_id, date_time, port_code, departure_arrival)

PORT (port_code, port_name, port_lat, port_longt, country_code)

COUNTRY_DETAILS (country_code, country_name)

Full dependencies:

cruise_id → cruise_name, cost_pp

cruise_id , date_time → port_code, country_code, departure_arrival

port_code → port_name, port_lat, port_longt

country_code → country_name