TASK 2 Ocean Odyssey Normalisation

Cruise Itinerary

UNF

CRUISE (cruise_id, cruise_name, cruise_cost, (port_code, port_name, port_ltd, port_lgd, country_code, country_name, arr_dep_status, date_and_time))

1NF

CRUISE (<u>cruise_id</u>, cruise_name, cruise_cost)

Candidate Key(s):
- cruise_id

CRUISE_PORT (port_code, <u>cruise_id</u>, port_name, port_ltd, port_lgd, country_code, country_name, arr_dep_status, <u>date_and_time</u>)

Candidate Key(s):
- cruise_id, date_and_time

Partial Dependencies:
- No partial dependencies present

2NF

CRUISE (<u>cruise_id</u>, cruise_name, cruise_cost)

CRUISE_PORT (port_code, <u>cruise_id</u>, port_name, port_ltd, port_lgd, country_code, country_name, arr_dep_status, <u>date_and_time</u>)

Transitive Dependencies:
- port_code -> port_name, port_ltd, port_lgd, country_code
- country_code -> country_name

3NF

CRUISE (<u>cruise_id</u>, cruise_name, cruise_cost)

CRUISE_PORT (<u>cruise_id</u>, port_code, arr_dep_status, <u>date_and_time</u>)

PORT (<u>port_code</u>, port_name, port_ltd, port_lgd, country_code)

COUNTRY (<u>country_code</u>, country_name)

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Full Dependencies:
- cruise_id -> cruise_name, cruise_cost
- cruise_id, date_and_time -> port_code, arr_dep_status
- port_code -> port_name, port_ltd, port_lgd, country_code
- country_code -> country_name

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