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TASK 2 NORMALISATION

UNF

CRUISE (cruise_id, cruise_name, cruise_cost_per_person (port_code, port_name, port_latitude, port_longitude, country_code, country_name, dep_arr, date_time))

1NF

CRUISE (cruise_id, cruise_name, cruise_cost_per_person)

CANDIDATE KEY:

- cruise_id

ITINERARY (cruise_id ,date_time, port_code, port_name, port_latitude, port_longitude, country_code, country_name, dep_arr)

CANDIDATE KEY:

- cruise_id ,date_time

Partial Dependencies:

There are no Partial Dependencies present

2NF

CRUISE (cruise_id, cruise_name, cruise_cost_per_person)

ITINERARY (cruise_id ,date_time, port_code, port_name, port_latitude, port_longitude, country_code, country_name, dep_arr)

Transitive Dependency:

port_code -> port_name, port_latitude, port_longitude, country_code, country_name

country_code -> country_name

3 NF

CRUISE (cruise_id, cruise_name, cruise_cost_per_person)

ITINERARY (cruise_id, date_time, port_code, dep_arr)

PORT (port_code, port_name, port_latitude, port_longitude, country_code)

COUNTRY (country_code, country_name)

Full Dependency:

cruise_id -> cruise_name, cruise_cost_per_person

cruise_id, date_time -> port_code, dep_arr

port_code -> port_name, port_latitude, port_longitude, country_code

country_code -> country_name

NO ATTRIBUTE SYNTHESIS IS REQUIRED