

Student Name: Syed Kabir

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CABIN CLEANING REPORT:

UNF:

RESORT_CABIN_CLEANING (resort_id, resort_name, resort_address, (cbn_no, cbn_std_cleantime, cleaning_datetime, contractor_no, contractor_fname, contractor_lname, contract_rate, cleaning_actual_time, cleaning_charge))

1NF:

RESORT (resort_id, resort_name, resort_address)

CABIN_CLEANING (resort_id, cbn_no, cleaning_datetime, cbn_std_cleantime, contractor_no, contractor_fname, contractor_lname, contract_rate, cleaning_actual_time, cleaning_charge)

Partial Dependencies:

resort_id, cbn_no -> cbn_std_cleantime

2NF:

RESORT (resort_id, resort_name, resort_address)

CABIN (resort_id, cbn_no, cbn_std_cleantime)

CLEANING (resort_id, cbn_no, cleaning_datetime, contractor_no, contractor_fname, contractor_lname, contract_rate, cleaning_actual_time, cleaning_charge)

Transitive Dependencies:

contractor_no -> contractor_fname, contractor_lname, contract_rate

3NF:

RESORT (resort_id, resort_name, resort_address)

CABIN (resort_id, cbn_no, cbn_std_cleantime)

CLEANING (resort_id, cbn_no, cleaning_datetime, cleaning_actual_time, cleaning_charge, contractor_no)

CONTRACTOR (contractor_no, contractor_fname, contractor_lname, contract_rate)

Full Dependencies:

resort_id -> resort_name, resort_address

resort_id, cbn_no -> cbn_std_cleantime

resort_id, cbn_no, cleaning_datetime -> cleaning_actual_time, cleaning_charge, contractor_no

contractor_no -> contractor_fname, contractor_lname, contract_rate

CLEANING CONTRACTOR RATES:

UNF:

CONTRACTOR (contractor_no, contractor_fname, contractor_lname, contractor_address, contractor_phone, (contract_stddate, contract_enddate, contract_rate, contract_type))

1NF:

CONTRACTOR (contractor_no, contractor_fname, contractor_lname, contractor_address, contractor_phone)

CONTRACT (contractor_no, contract_stddate, contract_enddate, contract_rate, contract_type)

Partial dependencies:

No partial dependency present.

2NF:

CONTRACTOR (contractor_no, contractor_fname, contractor_lname, contractor_address, contractor_phone)

CONTRACT (contractor_no, contract_stddate, contract_enddate, contract_rate, contract_type)

Transitive Dependencies:

No Transitive dependencies present

3NF:

CONTRACTOR (contractor_no, contractor_fname, contractor_lname, contractor_address, contractor_phone)

CONTRACT (contractor_no, contract_stddate, contract_enddate, contract_rate, contract_type)

Full Dependencies:

contractor_no -> contractor_fname, contractor_lname, contractor_address, contractor_phone

contractor_no, contract_stddate -> contract_enddate, contract_rate, contract_type

COLLECTED 3NF RELATIONS:

1. RESORT (resort_id, resort_name, resort_address)
2. CABIN (resort_id, cbn_no, cbn_std_cleantime)
3. CLEANING (resort_id, cbn_no, cleaning_datetime, cleaning_actual_time, cleaning_charge, contractor_no)
4. CONTRACTOR (contractor_no, contractor_fname, contractor_lname, contract_rate)
5. CONTRACTOR (contractor_no, contractor_fname, contractor_lname, contractor_address, contractor_phone)
6. CONTRACT (contractor_no, contract_stddate, contract_enddate, contract_rate, contract_type)

ATTRIBUTE SYNTHESIS:

1. RESORT (resort_id, resort_name, resort_address)
2. CABIN (resort_id, cbn_no, cbn_std_cleantime)
3. CLEANING (resort_id, cbn_no, cleaning_datetime, cleaning_actual_time, cleaning_charge, contractor_no)
- 4 & 5. CONTRACTOR (contractor_no, contractor_fname, contractor_lname, contractor_address, contractor_phone)
6. CONTRACT (contractor_no, contract_stddate, contract_enddate, contract_rate, contract_type)