**Cabin Cleaning Report**

**Resort ID:** 56 Resort Name: Merrimbula Beach Cabins Resort **Address: 56** The Spike Rd, Merrimbula, 2548

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cabin No** | **Standard Cabin Cleaning Time (mins)** | **Date & Time Cleaned** | **Contract Cleaner Details** | | | | **Actual Cabin Cleaning Time (mins)** | **Cabin**  **Cleaning**  **Charge** |
| **Contractor**  **No** | **First** | **Last** | **Contract Rate** |
| 12 | 60 | 01/05/2021 09:00 | 23 | William | Xui | $20.50 | 60 | $20.50 |
| /13 | 80 | 01/05/2021 10:00 | 23 | William | Xui | $20.50 | 90 | $30.75 |
| 15 | 60 | 01/05/2021 13:00 | 23 | William | Xui | $20.50 | 30 | $10.25 |
| 12 | 60 | 08/05/2021 10:00 | 45 | Mary | Green | $22.00 | 60 | $22.00 |
| 13 | 80 | 08/05/2021 12:00 | 45 | Mary | Green | $22.00 | 85 | $31.17 |
| 12 | 60 | 15/05/2021 10:00 | 23 | William | Xui | $20.50 | 55 | $18.79 |
| 15 | 60 | 15/05/2021 11:00 | 23 | William | Xui | $20.50 | 55 | $18.79 |

**Monash Cabins Cleaning Contractor Rates History**

**Contractor No:** 23 First Name: William Last Name: Xui Postal **address:** PO Box 100 Pambula, 2549 Phone: 0123456789

|  |  |  |  |
| --- | --- | --- | --- |
| **Contract Dates** | | **Contract Hourly Rate** | **Contract Type** |
| **Start Date** | **End Date** |
| 12/07/2019 | 31/12/2019 | $22.00 | Casual |
| 05/01/2020 | 30/12/2020 | $18.50 | Fixed |
| 01/02/2021 | 25/05/2021 | $20.50 | Fixed |
|  |  |  |  |

**Monash Cabins Cleaning Contractor Rates History**

**Contractor No:** 45 First Name: Mary Last Name: Green Postal **address:** 13 Narrow Lane Merrimbula, 2548 Phone: 0789123456

|  |  |  |  |
| --- | --- | --- | --- |
| **Contract Dates** | | **Contract Hourly Rate** | **Contract Type** |
| **Start Date** | **End Date** |
| 01/05/2021 |  | $22.00 | Casual |
|  |  |  |  |
|  |  |  |  |

Normalization of Cleaning History

UNF

**CleaningHistory**

ResortID

ResortName

ResortAdress

CabinNo

StandardCabinCleaningTime

DateTimeCleaned

ContractorNo

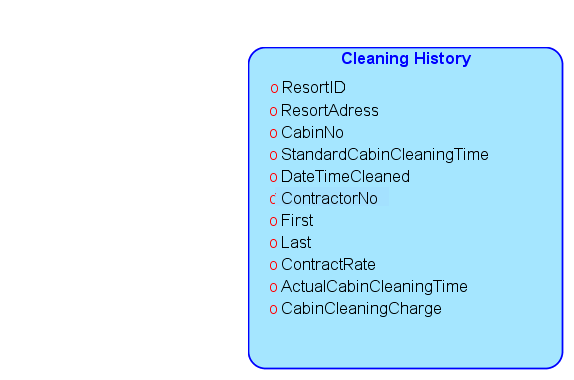
First

Last

ContractRate

ActualCabinCleaningTime

CabinCleaningCharge



1NF

Tables should not contain repeating groups of data. If so, it must take out the data group and create another entity that will contain this group of data.

**No repeating groups (no multiple values on one column)**

ResortID : will hold one id

ResortName : the name holds one value only

**ResortAdress :** the Adress Has **3** Values

**Street, Town and Postal Code**

CabinNo : will hold one number

StandardCabinCleaningTime : Holds one number represents minutes

DateTimeCleaned : one timestamp, and no more for this column

ContractorNo : Contract No is one value for each attribute

First: the first name is one varchar value

Last : the second name is one varchar value

ContractRate : this column holds one price.

ActualCabinCleaningTime : one number represent minutes passed in cleaning

**Primary key**

**Table CleaningHistory**

ResortID , CabinNo, ContractorNo, DateTimeCleaned

we may chose just (ResortID ,CabinNo,DateTimeCleaned) but we consider the case or two contractors are used for fast cleaning , or if there is different specialty for each contractor.

**CleaningHistory**

**ResortID**

**CabinNo**

**ContractorNo**

**DateTimeCleaned**

(ResortID,CabinNo,ContractorNo,DateTimeCleaned)🡪 ResortName

(ResortID,CabinNo,ContractorNo,DateTimeCleaned) 🡪 ResortAdress

(ResortID,CabinNo,ContractorNo,DateTimeCleaned) 🡪 StandardCabinCleaningTime

(ResortID,CabinNo,ContractorNo,DateTimeCleaned) 🡪 First

(ResortID,CabinNo,ContractorNo,DateTimeCleaned) 🡪 Last

(ResortID,CabinNo,ContractorNo,DateTimeCleaned) 🡪 ContractRate

(ResortID,CabinNo,ContractorNo,DateTimeCleaned) 🡪 ActualCabinCleaningTime

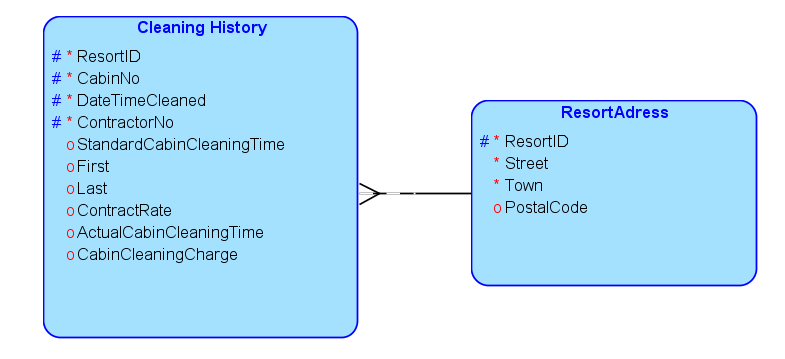
Table ResortAdress

Primary key : ResortID

(ResortID,Street,Town) 🡪 PostalCode

(ResortID,Street,Town) 🡪 Street

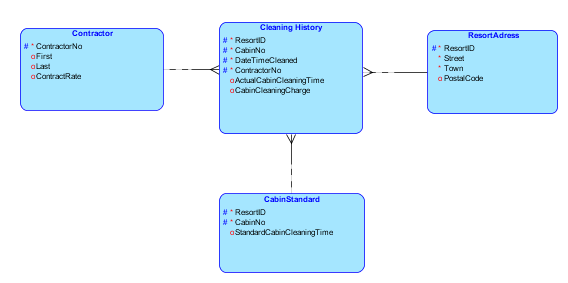
(ResortID,Street,Town) 🡪 Town



2NF

2NF

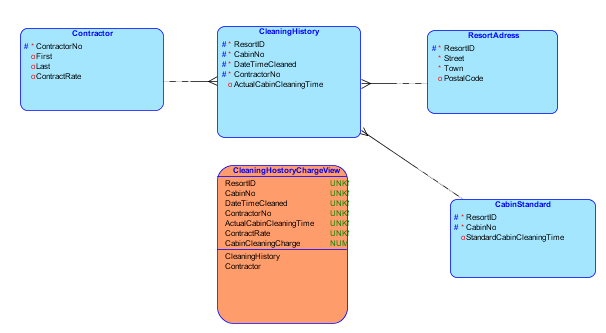
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **ResortID**  **CabinNo**  **ContractorNo**  **DateTimeCleaned** | **Standad**  **Cabinet**  **Cleaning**  **Time** | **First**  **Last** | **Contract**  **Rate** | **Actual cleaning time** | **cleaning charge** |
| Partial  dependencies | Primary key has no other determinant | **depends on CabinNo** | **Depends on Contractor**  **NO** | **Depends on Contractor**  **NO** | Depends on PK | Depends on PK |
| Dependecies | / | **CabinNo 🡪**  **stdClTime** | **Contractor**  **No 🡪 First/Last** | **Contractor**  **No 🡪 Contract**  **Rate** | PK 🡪  **Actual cleaning time** | PK 🡪 cleaning charge |
| Determinant | NA | CabinNo | Contractor  No | Contractor  No | PK | PK |
| Type of determinant | NA | Partial Key attribute | Partial  Key attribute | Partial  Key a/ttribute | Key attribute | Key attribute |



(Statement 3) An entity or relation is in third normal form (3FN) if

1. it is already in 2FNb.
2. All non-key attributes depend only on the key. There is no dependency between two non-key attributes.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **ResortID**  **CabinNo**  **ContractorNo**  **DateTimeCleaned** | **Actual cleaning time** | **cleaning charge** |
| Transitive Dependencies | Primary key has no other determinant | Depends on PK | **Depends on PK through cleaning time** |
| Dependecies | / | PK **🡪 Actual cleaning time** | **actual cleaning time**  **🡪 Cleaning charge** |

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