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# Normalization of Figure 2

## Assumption

The following are the assumptions for the normalization of figure 2:

* Every Tour Package will have its own package id.
* Every package has number days to travel. So the day and package id are depending to each other.
* In every package it will have many activities which is identified by activities id. So the activity id is depending on package id and day.
* Travel Mode depends on activities.

**UNF**

**Tracking-Record** (**package-id**, package-name, start-date, end-date, tour-guide {day, travel-details {activities-id, activities, travel-mode, status}, difficulty-mode})

**1NF**

* **Removing Repeating Groups**

**Tracking-Record1**(**package-id**, package-name, start-date, end-date, tour-guide)

**PackageDays1**(**package-id**, **day**, travel-details, difficulty-mode)

**PackageActivity1**(**package-id**, **day**, **activity-id**, activities, travel-mode, status)

**2NF**

* **Removing Partial Dependency**

**package-id ->**

**package-id, day ->** travel-details, status, difficulty-mode

**package-id, day, activity-id ->** activities, travel-mode, status

**Tracking-Record2**(**package-id**, package-name, start-date, end-date, tour-guide)

**PackageDays2**(**package-id**, **day**, travel-details, difficulty-mode)

**PackageActivity2**(**package-id**, **day**, **activity-id**, activities, travel-mode, status)

**3NF**

* **Removing Transitive Dependency**

**Activities ->** travel-mode, status,

**Tracking-Record3**(**package-id**, package-name, start-date, end-date, tour-guide)

**PackageDays3**(**package-id**, **day**, travel-details, difficulty-mode)

**PackageActivity3**(**package-id**, **day**, **activity-id**)

**Activity3(**activities, travel-mode, status)

# ERD of Figure 1 and Figure 2

