

**Module Code & Module Title**

CC6001NA Advance Database System Development

**Assessment Weightage & Type**

40% Individual Coursework

**Year and Semester**

2019-20 Autumn

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**Assignment Due Date:**

**Assignment Submission Date:**

**Word Count:**

*I confirm that I understand my coursework needs to be submitted online via Google Classroom under the relevant module page before the deadline for my assignment to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a mark of zero will be awarded.*

# 1. Textual Analysis

The following are the textual analysis of the questions:

* A Company can have many number of staff.
* A Company can have many number of tour packages.
* A Company can have assigned many tour guides for a tour.
* A Customer can take many packages but one at time.

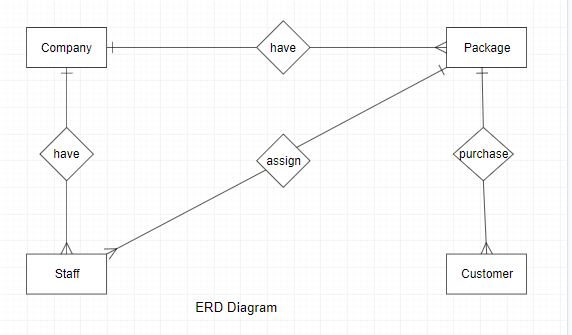


Figure 1 ERD of Textual Diagram

# 2. Normalization

The following normalization of Package Record:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Package ID | Package Name | Destination | Total No of Days | Difficulty |
| LK25A | ABC | Annapurna Base Camp | 7 | Moderate |
| UI32A | Ghandruk | Ghandruk, Pokhara | 4 | Moderate |
| NB34G | Everest Short Trek | Lukla, Khumjung | 4 | Hard |

Table 1Table of Package Record

**UNF**

Package (package-id, package name, total no of days, difficulty, {destination-id, destination})

**1NF**

* **Removing Repeating Group**

**Tables**

Package-1(**package-id**, package name, total no of days, difficulty)

Package-Destination-1(**package-id, destination-id**, destination)

**2NF**

* **Removing Partial Dependency**

package-id ->

package-id, destination-id->

destination-id-> destination

**Tables**

Package-2(**package-id**, package name, total no of days, difficulty)

Package-Destination-2(**package-id, destination-id**)

Destination-2(**destination-id**, destination)

**3NF**

* **Removing Transitive Dependency**

Since there is not transitive dependency. It is in 3NF.

Package-3(**package-id**, package name, total no of days, difficulty)

Package-Destination-3(**package-id, destination-id**)

Destination-3(**destination-id**, destination)