# Normalization

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**Project Name :** Alumni Management System

## admin :

| Admin ID | Admin Name | Admin Password |
|---|---|---|

## Alumni :

| Alumni ID | Alumni Name | Alumni Gender | Alumni Address | Alumni email | Alumni Department | Alumni Password |
|---|---|---|---|---|---|---|

Primary key : (—)

Candidate Key : (- - -)

## department :

| Department ID | Department Name |
|---|---|

## Student :

| Student ID | Department ID | Alumni ID | Major | Course |
|---|---|---|---|---|

## Alumni Detail (Higher Studies) :

| Alumni ID | Higher Studies ID | ~~Department~~ | Institute Name | Course |
|---|---|---|---|---|

## Work detail (Job) :

| Alumni ID | Work ID | Company Name | Company Location | Company Package | Date of Joining | DOR |
|---|---|---|---|---|---|---|

Candidate key : Admin ID, ~~Admin Pass~~ Alumni ID, Alumni email, Department ID, Student ID, Higher Studies ID, Work ID.

1-NF : No multivalued Attributes or nested relation

2-NF: There is no partial dependancy in our table

3-NF : There is no transitive dependancy in our table

BCNF: In non trivial functional dependancy $x \Rightarrow y$,
$X$ is a super key and no non-prime determines a super key.

As no relation in this schema violates BCNF. So it is same as before.