

## Normalization

Project Code	Project Type	Description	Person Number	Name	Grade	Salary Scale	Date-join Project	Alloc-time
IC5001	New Dev	Develop Claims System	2146	Jones	A1	4	1/11/20xx	24
			3145	Smith	A2	4	2/10/20xx	24
			6126	Black	B1	9	7/11/20xx	18
			1214	Brown	A2	4	3/10/20xx	12
			8191	Green	A1	4	12/11/20xx	18
PAY22	Maint	Maintain Payments	6142	Jacks	A2	4	9/11/20xx	6
			3169	White	B2	10	4/11/20xx	12
			6145	Dean	B3	10	8/10/20xx	6

**Project**(Project\_Code, Project\_Type, Decription, Person\_Number, Name, Grade, Salary\_Scale, Date\_Join\_Project, Alloc\_Time)

**UNF (selecting repeating group):**

**Project**(Project\_Code, Project\_Type, Description, {Person\_Number, Name, Grade, Salary\_Scale, Date\_Join\_Project, Alloc\_Time})

## 1NF

**Project1**(Project\_Code, Project\_Type, Description)

**Project-Person1**(Project\_Code, Person\_Number, Name, Grade, Salary\_Scale, Date\_Join\_Project, Alloc\_Time)

## 2NF

- **Removing partial dependency**

Project\_Code, Person\_Number -> Grade, Salary\_Scale, Date\_Join\_Project, Alloc\_Time

Person\_Number -> Name

Project\_Code ->

### **Tables**

**Project2**(Project\_Code, Project\_Type, Description)

**Project-Person2**(Project\_Code, Person\_Number, Grade, Salary\_Scale, Date\_Join\_Project, Alloc\_Time)

**Person2**(Person\_Number, Name)

## 3NF

- **Removing Transitive Dependency**

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

### **Tables**

**Project3**(Project\_Code, Project\_Type, Description)

**Project-Person3**(Project\_Code, Person\_Number, Grade, Salary\_Scale, Date\_Join\_Project, Alloc\_Time)

**Person3**(Person\_Number, Name)