



Universidad Nacional Autónoma de México



Facultad de Ingeniería

Bases de Datos

Grupo: 01

Tarea 18. Normalización 1FN y 2FN

Alumno: Rodríguez Larios Alejandro

Profesor: Ing. Fernando Arreola Franco

Semestre 2022-2

Employee ID	Name	Project	Time
EN1-26	Sean O'Brien	30-452-T3, 30-457-T3, 32-244-T3	0.25, 0.40, 0.30
EN1-33	Amy Guya	30-452-T3, 30-382-TC, 32-244-T3	0.05, 0.35, 0.60
EN1-35	Steven Baranco	30-452-T3, 31-238-TC	0.15, 0.80
EN1-36	Elizabeth Roslyn	35-152-TC	0.90
EN1-38	Carol Schaaf	36-272-TC	0.75
EN1-40	Alexandra Wing	31-238-TC, 31-241-TC	0.20, 0.70

Existen atributos multivaluados, por lo tanto, no cumple 1FN

A

B

C

D

Employee ID	Name	Project	Time
EN1-26	Sean O'Brien	30-452-T3	0.25
EN1-26	Sean O'Brien	30-457-T3	0.40
EN1-26	Sean O'Brien	32-244-T3	0.30
EN1-33	Amy Guya	30-452-T3	0.05
EN1-33	Amy Guya	30-382-TC	0.35
EN1-33	Amy Guya	32-244-T3	0.60
EN1-35	Steven Baranco	30-452-T3	0.15
EN1-35	Steven Baranco	31-238-TC	0.80
EN1-36	Elizabeth Roslyn	35-152-TC	0.90
EN1-38	Carol Schaaf	36-272-TC	0.75
EN1-40	Alexandra Wing	31-238-TC	0.20
EN1-40	Alexandra Wing	31-241-TC	0.70

Tomamos como PK A y C

{A, C} -> B, D

A -> B

{A, C} -> D

Hay dependencias funcionales parciales, por lo tanto, no se cumple 2FN

Employee ID	Name
EN1-26	Sean O'Brien
EN1-33	Amy Guya
EN1-35	Steven Baranco
EN1-36	Elizabeth Roslyn
EN1-38	Carol Schaaf
EN1-40	Alexandra Wing

Employee ID	Project	Time
EN1-26	30-452-T3	0.25
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EN1-33	30-452-T3	0.05
EN1-33	30-382-TC	0.35
EN1-33	32-244-T3	0.60
EN1-35	30-452-T3	0.15
EN1-35	31-238-TC	0.80
EN1-36	35-152-TC	0.90
EN1-38	36-272-TC	0.75
EN1-40	31-238-TC	0.20
EN1-40	31-241-TC	0.70