

Case 1 - UNF

EmployeeID | EmployeeName | Department | Projects | Manager

Case 1 - 1NF

EmployeeID	EmployeeName	Department	ProjectID	ProjectName	Manager
E001	Ahmed	IT	P101	Website	Eng. Khalid
E001	Ahmed	IT	P102	Mobile App	Eng. Khalid
E002	Salim	HR	P103	Recruitment	Ms. Amal
E003	Aisha	IT	P102	Mobile App	Eng. Khalid
E003	Aisha	IT	P104	Database Upgrade	Eng. Khalid

Case 1 - Employee Table (2NF)

EmployeeID	EmployeeName	Department
E001	Ahmed	IT
E002	Salim	HR
E003	Aisha	IT

Case 1 - Project Table (2NF)

ProjectID	ProjectName
P101	Website
P102	Mobile App
P103	Recruitment
P104	Database Upgrade

Case 1 - Employee_Project Table (2NF)

EmployeeID	ProjectID
E001	P101
E001	P102
E002	P103
E003	P102
E003	P104

Case 1 - Department Table (3NF)

Department	Manager
IT	Eng. Khalid

HR	Ms. Amal
----	----------

Case 2 - UNF

StudentID | StudentName | Department | Courses Enrolled | Advisor

Case 2 - 1NF

StudentID	StudentName	Department	CourseID	CourseName	Advisor
S001	Reem	CS	C101	DB	Dr. Omar
S001	Reem	CS	C102	AI	Dr. Omar
S002	Tariq	Business	C103	Marketing	Dr. Sarah
S003	Noura	CS	C101	DB	Dr. Omar
S003	Noura	CS	C104	Cybersecurity	Dr. Omar

Case 2 - Student Table (2NF)

StudentID	StudentName	Department
S001	Reem	CS
S002	Tariq	Business
S003	Noura	CS

Case 2 - Department Table (3NF)

Department	Advisor
CS	Dr. Omar
Business	Dr. Sarah

Case 2 - Student_Course Table (2NF)

StudentID	CourseID
S001	C101
S001	C102
S002	C103
S003	C101
S003	C104

Case 3 - UNF

BookingID | PassengerName | Flights | SeatNumbers | PaymentMethod

Case 3 - 1NF

BookingID	PassengerName	FlightID	Route	SeatNumber	PaymentMethod
B001	Salem	F101	Muscat-Dubai	12A	Credit Card
B001	Salem	F102	Dubai-London	14C	Credit Card
B002	Fatma	F103	Muscat-Istanbul	10B	PayPal
B003	Zayed	F104	Istanbul-Paris	9A	Credit Card
B003	Zayed	F105	Paris-Oslo	13A	Credit Card

Case 3 - Booking Table (2NF)

BookingID	PassengerName	PaymentMethod
B001	Salem	Credit Card
B002	Fatma	PayPal
B003	Zayed	Credit Card

Case 3 - Flight Table (2NF)

FlightID	Route
F101	Muscat-Dubai
F102	Dubai-London
F103	Muscat-Istanbul
F104	Istanbul-Paris
F105	Paris-Oslo

Case 3 - Booking_Flight Table (2NF)

BookingID	FlightID	SeatNumber
B001	F101	12A
B001	F102	14C
B002	F103	10B
B003	F104	9A
B003	F105	13A