

❖ Case 4: Hotel System – UNF Table

ReservationID	GuestName	RoomNumbers	ServicesUsed	CheckInDate	StaffAssigned
R001	Nasser	101, 102	Spa, Breakfast	2025-05-01	Mariam Al-Raisi
R002	Hind	103	Breakfast	2025-05-02	Saleh Al-Balushi
R003	Ahmed	104, 105	Spa, Dinner, Laundry	2025-05-03	Mariam Al-Raisi

1NF

ReservationID	GuestName	RoomNumber	ServiceUsed	CheckInDate	StaffAssigned
R001	Nasser	101	Spa	2025-05-01	Mariam Al-Raisi
R001	Nasser	101	Breakfast	2025-05-01	Mariam Al-Raisi
R001	Nasser	102	Spa	2025-05-01	Mariam Al-Raisi
R001	Nasser	102	Breakfast	2025-05-01	Mariam Al-Raisi
R002	Hind	103	Breakfast	2025-05-02	Saleh Al-Balushi
R003	Ahmed	104	Spa	2025-05-03	Mariam Al-Raisi
R003	Ahmed	104	Dinner	2025-05-03	Mariam Al-Raisi
R003	Ahmed	104	Laundry	2025-05-03	Mariam Al-Raisi
R003	Ahmed	105	Spa	2025-05-03	Mariam Al-Raisi
R003	Ahmed	105	Dinner	2025-05-03	Mariam Al-Raisi
R003	Ahmed	105	Laundry	2025-05-03	Mariam Al-Raisi

2NF

ReservationID	GuestName	CheckInDate	StaffAssigned	ReservationID	RoomNumber
R001	Nasser	2025-05-01	Mariam Al-Raisi	R001	101
R002	Hind	2025-05-02	Saleh Al-Balushi	R001	102
R003	Ahmed	2025-05-03	Mariam Al-Raisi	R002	103
				R003	104
				R003	105

ReservationID ServiceUsed GuestName, CheckInDate, StaffAssigned depend only on ReservationID.

No attribute depends only on RoomNumber or ServiceUsed

R001	Spa
R001	Breakfast
R002	Breakfast
R003	Spa
R003	Dinner
R003	Laundry