



Class Activity 7: Normalisation Dependency Diagrams

Design the dependency diagram for the data given below in **1st, 2nd and 3rd normal form**. You are given the following flat file with tourist data:

PassengerNo.	PName	Psurname	PCell	ID	Destination No.	DestinationDesc	DailyCost	AgentNo.	TravelAgent	CommissionPerc	Duration	Admin Fee
NN3008	Nat	Smit	0835412382	9904010231090	JE260	Durban	R500	110	StarTravel	12%	6 days	R200
DM2302	Dan	Nel	0713214576	9803215678080	SUN13	Suncity	R240	122	TravScott	18%	3 days	R260
					SUN13	Suncity	R700	32	TravScott	15%	12 days	R350
SR3103	Sam	Fuller	0612340891	9812310841080	VA121	Vaal	R850	101	TravScott	20%	10 days	R410
RC2202	Ronald	McD	072321080	9703230876090	MN123	Cape Town	R430	104	StarTravel	14%	5 days	R350
					PIL910	Pilansberg	R510	30	StarTravel	11%	2 days	R120

1^{NF}:

Tourist_Data

<u>PassengerNo</u>	PName	PSurname	PCell	ID	<u>DestinationNo</u>	DestinationDesc	DailyCost	<u>AgentNo</u>	TA	CommissionPerc	Duration	AdminFee
<u>NN3008</u>	Nat	Smit	0835412382	9904010231090	<u>JE260</u>	Durban	R500	<u>110</u>	StarTravel	12%	6 Days	R200
<u>DM2302</u>	Dan	Nel	0713214576	9803215678080	<u>SUN13</u>	Suncity	R240	<u>122</u>	TravScott	18%	3 Days	R260
<u>DM2302</u>	Dan	Nel	0713214576	9803215678080	<u>SUN13</u>	Suncity	R700	<u>32</u>	TravScott	15%	12 Days	R350
<u>SR3103</u>	Sam	Fuller	0612340891	9812310841080	<u>VA121</u>	Vaal	R850	<u>101</u>	TravScott	20%	10 Days	R410
<u>RC2202</u>	Ronald	McD	072321080	9703230876090	<u>MN123</u>	Cape Town	R430	<u>104</u>	StarTravel	14%	5 Days	R350
<u>RC2202</u>	Ronald	McD	072321080	9703230876090	<u>PIL910</u>	Pilansberg	R510	<u>30</u>	StarTravel	11%	2 Days	R120

2^{NF}:

Passenger_Info

<u>PassengerNo</u>	PName	PSurname	PCell	ID

Destination_Info

<u>DestinationNo</u>	DestinationDes	DailyCost

Agent_Info

<u>AgentNo</u>	TA	CommissionPerc	Duration	AdminFee

3^{NF}:

Passenger_Info

<u>PassengerNo</u>	PName	PSurname	PCell	ID

Destination_Info

<u>Destination No</u>	Destination Des	DailyCost

Trip_Info

<u>Desination No</u>	Agent No

Agent_Info

<u>AgentNo</u>	TA	CommissionPerc	Duration	Admin Fee