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Assignment 3: Normalization
MISC 485-40
4/17/2019

E4.7 –

    a. Full Key = (ShipmentID, ProductID, Quantity)
       Partial Key = (ShipmentID, ShipmentDate, TruckID, TruckType) (ProductID, ProductType)
       Transitive Key = (TruckID, TruckType)

    b. 2NF

ShipmentID	ShipmentDate	TruckID	TruckType	ProductID	Quantity
111	1 – Jan	T – 111	Semi – Trailer	A	180
111	1 - Jan	T – 111	Semi – Trailer	B	120
222	2 - Jan	T – 222	Van Truck	C	10,000
333	3 - Jan	T – 333	Semi – Trailer	D	5,000
333	3 - Jan	T – 333	Semi – Trailer	A	200
444	3 - Jan	T – 222	Van Truck	C	25,000
555	3 - Jan	T – 111	Semi – Trailer	B	180

ProductID	ProductType
A	Tire
B	Battery
C	SparkPlug
D	Wipers

    c. 3NF

ShipmentID	ShipmentDate	TruckID	ProductID	Quantity
111	1 – Jan	T – 111	A	180
111	1 - Jan	T – 111	B	120
222	2 - Jan	T – 222	C	10,000
333	3 - Jan	T – 333	D	5,000
333	3 - Jan	T – 333	A	200
444	3 - Jan	T – 222	C	25,000
555	3 - Jan	T – 111	B	180

ProductID	ProductType
A	Tire
B	Battery
C	SparkPlug
D	Wipers

TruckID	TruckType
T – 111	Semi – Trailer
T – 222	Van Truck
T – 333	Semi – Trailer