Question 1

For the following User View, determine the 1, 2 and 3NF The UNF relation has been provided.

Premiere Corporation

Order Detail Report

Order Number	Order Date	Cust Number	Cust Last Name	Part Number	Part Desc	Qnty Ordered	Quoted Price
12489	2016-09-02 124	124	Adams	AX12	Iron	11	14.95
12491	2016-09-02 311	311	Charles	BT04	GasGrill	3	440.00
				BZ66	Washer	1	399.99
				CX11	MiniBlender	1	11.98
12494	2016-09-04	315	Daniels	CB03	Bike	4	279.96
12495	2016-09-04	256	Samuels	CX11	MiniBlender	2	23.96
12498	2016-09-05	522	Nelson	AZ52	Dartboard	2	12.96
				BA74	Basketbal	4	24.96
12500	2016-09-05	124	Adams	BT04	GasGrill	1	149.99
12504	2016-09-05	522	Nelson	CZ81	Treadmill	2	325.98

UNF:

Order [PK <u>OrderNo</u>, Orderdate, CustNo, CustLname, (PartNo, PartDesc, QtyOrd, Price)]

1NF:

Order [PK <u>OrderNo</u>, Orderdate, CustNo, CustLname]

Part_Order [FK <u>OrderNo</u>, <u>PartNo</u>, PartDesc, QtyOrd,QuotedPrice]

2NF: (NO PARTIAL DEPENDENCY)

Order [PK <u>OrderNo</u>, Orderdate, CustNo, CustLname]

Part_Order [FK <u>OrderNo</u>, FK <u>PartNo</u>, QtyOrd]

Part [PK <u>PartNo</u>, PartDesc, QuotedPrice]

3NF: (NO TRANSITIVE DEPENDENCY)

Customer [PK <u>CustNo</u>, CustLname]

Order [PK <u>OrderNo</u>, Orderdate, FK CustNo]

Part_Order [PK <u>OrderNo</u>, FK <u>PartNo</u>, QtyOrd]

Part [PK <u>PartNo</u>, PartDesc, QuotedPrice]

Question 2

For the following User View, determine the UNF, 1, 2 and 3NF

MODEL#	SERIAL#	PRICE	COLOR	NAME	YEAR
1234	342	13.25	blue	pot	1974
1234	347	13.25	red	pot	1974
1234	410	14.23	red	pot	1975
1465	347	9.45	black	pan	1974
1465	390	9.82	black	pan	1976
1465	392	9.82	red	pan	1976
1465	401	9.82	red	pan	1976
1465	409	9.82	blue	pan	1976
1623	311	22.34	blue	kettle	1973
1623	390	30.21	blue	kettle	1976
1623	410	28.55	black	kettle	1975
1623	423	28.55	black	kettle	1975
1623	428	28.55	blue	kettle	1975
1654	435	28.55	red	kettle	1975

UNF: **Utensil**[PK **Serial**, Model, (Price, Color, Name, Year)]

1NF: **Utensil**[PK **Serial**, PK **Model**, Price, Color, Name, Year]

2NF:

 Utensil[PK **Serial,** Year]

Model[FK **Serial**, PK **Model,** Price, Color, Name]

3NF:

Utensil[PK **Serial,** Year]

Model[PK MODELNO , FK **Serial,** FK **Model,** Price]

Description[PK **Model,** Name, Color]

Question 3

For the following User View, determine the UNF, 1, 2 and 3NF

Movie rental report

FULL NAMES	PHYSICAL ADDRESS	MOVIES RENTED	SALUTATION
Janet Jones	First Street Plot No 4	Pirates of the Caribbean, Clash of the Titans	Ms.
Robert Phil	3rd Street 34	Forgetting Sarah Marshal, Daddy's Little Girls	Mr.
Robert Phil	5th Avenue	Clash of the Titans	Mr.

UNF:

Client [PK clientId, fullName, address, salutation, (movieName)]

1NF:

Client [PK clientId, fullName, address, salutation]

Client_Movie [FK clientId, movieID, movieName]

2NF:

Client [PK clientId, fullName, address, salutation]

Client_Movie [FK clientId, FK movieID]

Movie [PK movieID, movieName]

3NF:

Client [PK clientId, FK fullName, address]

Client_Movie [FK clientId, FK movieID]

Movie [PK movieID, movieName]

ClientSal[PK fullName , salutation]