Name: _____

QUIZ 14 - ICS 321 Fall 2017

The following relvar contains the same information as our running Suppliers Parts database, except (a) the cities have been renamed to distinguish between the supplier and parts cities, and (b) the supplier's status now depends on the supplier's city. To accommodate this last exception, the STATUS of S3 Blake from Paris, was changed from 30 to 10. This was the only change made to the data.

SNO	PNO	QTY	SNAME	STATUS	SCITY	PNAME	COLOR	WEIGHT	PCITY
S1	P1	300	Smith	20	London	Nut	Red	12.0	London
S1	P2	200	Smith	20	London	Bolt	Green	17.0	Paris
S1	P3	400	Smith	20	London	Screw	Blue	17.0	Oslo
S1	P4	200	Smith	20	London	Screw	Red	14.0	London
S1	P5	100	Smith	20	London	Cam	Blue	12.0	Paris
S1	P6	100	Smith	20	London	Cog	Red	19.0	London
S2	P1	300	Jones	10	Paris	Nut	Red	12.0	London
S2	P2	400	Jones	10	Paris	Bolt	Green	17.0	Paris
S3	P2	200	Blake	10	Paris	Bolt	Green	17.0	Paris
S4	P2	200	Clark	20	London	Bolt	Green	17.0	Paris
S4	P4	300	Clark	20	London	Screw	Red	14.0	London
S4	P5	400	Clark	20	London	Cam	Blue	12.0	Paris

1. Decomposing the above relvar into relvars containing the same information but in BCNF, write the relvars containing the supplier information (that was previously contained in S)?

2. Write the Tutorial D expressions expressing the BCNF relvars decomposed from the table above?