EASTERN UNIVERSITY, SRILANKA

SECOND EXAMINATION IN SCIENCE - 2004/2005

SECOND SEMESTER (Oct./Nov.,2006)

CS253 – Practical Work on CS203

Answer all questions

Time: 2Hours

Consider the database given below where the primary keys are underlined:

Therefore SNum is the primary key for Supplier, PNun is the primary key for Parts and SNum and PNum together form the primary key for Supplier_Parts. The Supplier_Parts relation lists the quantity of parts supplied by suppliers.

Supplier

SNum	SName	Status	City
S1	Smith	20	London
S2	Jones	10	Paris
S3	Blake	30	Paris
S4	Clark	20	London
S5	Adams	30	Athens

Parts

PNum	PName	Color	Weight	City
P1	Nut	Red	12	London
P2	Bolt	Green	17	Rome
P3	Screw	Blue	17	Rome
P4	Screw	Red	14	London
P5	Cam	Blue	12	Paris
P6	Cog	Red	19	London

Supplier_Parts

SNum	PNum	Qty
S1	P1	300
S1	P2	200
S1	P3	400
S1	P4	200
S1	P5	100
S1	P6	100
S2	P1	300
S2	P2	400
S3	P2	200
S4	P2	200
S4	P4	300
S4	P5	400

(i).   Create the above tables in MS Access.

(ii).   Write the SQL SELECT statement which provides the answer to each of the questions below

1. What are the names of all of the suppliers in "London"?

2. What are the names of all of the parts that are "Red"?

3. What are the names of all parts and the quality on hand of each part?

4. What are the names of all suppliers that supply "Red" parts?

5. What is the total number of parts in inventory?

6. What are the names of all parts and the total number of each parts in inventory?

7. What are the names of all suppliers and the number of parts each supplies?

8. Which supplier supplies the largest total number of parts?

9. List the names of all suppliers and the colors of all parts each supplies?

10. What are the names of the suppliers who do NOT supply "Red" parts?