DBMS lab

Tathagat Banerjee

17bce7100

1. Get suppliers names who supply part “P2”.

SELECT s\_name FROM Supplier WHERE s\_id IN(SELECT s\_no FROM Shipment WHERE p\_no =

'P2');

S\_NAME

Smith

Jones

Blake

Clark

2. Get suppliers names who supply at least one red part.

SELECT s\_name FROM Supplier WHERE s\_id IN(SELECT s\_no FROM Shipment WHERE p\_no

IN(SELECT p\_no FROM Part WHERE color = 'red'));

S\_NAME

Smith

Jones

Clark

3. Get the supplier names who do not supply part ‘P2’.

SELECT s\_name FROM Supplier WHERE s\_id NOT IN(SELECT s\_no FROM Shipment WHERE p\_no =

'P2');

S\_NAME

Adams

4. Get the supplier names who supply all parts.

SELECT s\_name FROM Supplier WHERE s\_id IN(SELECT s\_no FROM Shipment GROUP BY s\_no

HAVING count(\*)=6);

S\_NAME

Smith

5. Get supplier numbers who supply at least one of the parts supplied by supplier ‘S2’.

SELECT DISTINCT s\_no FROM Shipment WHERE p\_no IN(SELECT p\_no FROM Shipment WHERE

s\_no = 'S2');

S\_NO

S2

S4

S1

S3

6. Get all pairs of supplier numbers such that two suppliers in a pair are located in the same

city.

SELECT s1.s\_id,s2.s\_id FROM Supplier as s1,Supplier as s2 WHERE s1.city = s2.city AND

s1.s\_id!=s2.s\_id;

S1.S\_ID S2.S\_ID

S4 S1

S2 S3

7. Get all shipments where the quantity is in the range 300 to 750 inclusive.

SELECT \* FROM Shipment WHERE quantity > = 300 AND quantity < = 750;

S\_NO P\_NO QUANTITY

S1 P1 300

S1 P3 400

S2 P1 300

S2 P2 400

S4 P4 300

S4 P5 400

8. Get all supplier-number and part-number pairs such that the indicated supplier, and part

in a pair are located in the same city.

SELECT Shipment.s\_no,Shipment.p\_no FROM Shipment,Supplier,Part WHERE Shipment.s\_no =

Supplier.s\_id AND Shipment.p\_no = Part.p\_no AND Supplier.city = Part.city;

S\_NO P\_NO

S1 P1

S2 P2

S3 P2

S1 P4

S4 P4

S1 P6

9. Get all cities in which at least one supplier, or part is located.

SELECT city FROM Supplier UNION SELECT city FROM Part;

CITY

Athens

London

Oslo

Paris

10. Get supplier-number/part-number pairs such that the indicated supplier does not supply

the indicated part.

SELECT s\_id,p\_no FROM Supplier,Part MINUS SELECT s\_no,p\_no FROM Shipment;

S\_ID P\_NO

S2 P3

S2 P4

S2 P5

S2 P6

S3 P1

S3 P3

S3 P4

S3 P5

S3 P6

S4 P1

S4 P3

S4 P6

S5 P1

S5 P2

S5 P3

S5 P4

S5 P5

S5 P6