

Database Systems

Labsheet-6

(Prof R Gururaj)

Create following tables with given constraints and insert the data.

Part

<i>pid</i> <i>(int)</i> <i>PK</i>	<i>pname</i> <i>vc(10)</i>	<i>price</i> <i>(int)</i>
101	Scale	30
104	Sketch	10
105	Tape	15
107	Pad	160
110	Ink	25
112	Pin	5
124	Chalk	120
135	Paper	80

Vendor

<i>vid</i> <i>(int)</i> <i>PK</i>	<i>vname</i> <i>vc(10)</i>	<i>vloc</i> <i>vc(10)</i>
3	Crown	Delhi
5	Topper	Delhi
7	Avon	Mumbai
11	Swan	Hyderabad
13	Rally	Chennai
15	Buddy	Chennai

Supply

<i>pid</i> (PK1 and FK to pid of Part)	<i>vid</i> (PK2 and FK to vid of Vendor)	<i>Qty</i> <i>(int)</i>
104	7	420
104	13	380
105	13	350
107	5	500
107	11	200
107	7	10
110	3	22
110	5	35
110	13	150
110	15	20
124	7	300
124	11	34
124	13	12

PK (pid, vid)

Write SQL statements for the following requirements.

Note: Try various approaches like- without nesting, using set operations, using IN/NOT IN , using EXISTS/NOT EXISTS etc., as appropriate.

1. Get pid, pname for those not supplied by any vendor.
2. Get pid, pname which are supplied by all vendors from 'DELHI'.
3. Get for Delhi based vendor vid and name if they supply at least 3 parts.
4. Get vid, vname for those vendors not supplying any part with price greater than 100.
5. For each part get pid, pname and number of 'Chennai' based vendors supplying it.
6. Get vid and vname for those vendors supplying all parts price greater than 100.
7. For each part get pid, pname and number of vendors supplying it.
8. Get vendor id , vname if they are supplying at least 43 parts.
9. Get vid, vname for those supplying part 'Pad'.
10. Get vid, vname for those supplying at least one part in qty greater than 250.
11. Get vid, vname and number parts they supply with qty greater than 100.