Supplier - database

create database Supplier\_database;

use Supplier\_database;

CREATE TABLE Supplier (

sid INT PRIMARY KEY,

sname VARCHAR(255),

address VARCHAR(255)

);

CREATE TABLE Part (

pid INT PRIMARY KEY,

pname VARCHAR(255),

color VARCHAR(50),

weight DECIMAL(10, 2)

);

CREATE TABLE Supply (

sid INT,

pid INT,

cost DECIMAL(10, 2),

PRIMARY KEY (sid, pid),

FOREIGN KEY (sid) REFERENCES Supplier(sid),

FOREIGN KEY (pid) REFERENCES Part(pid)

);

INSERT INTO Supplier (sid, sname, address) VALUES

(10001, 'Acme Widget', 'bangalore'),

(10002, 'Johns', 'Kolkata'),

(10003, 'Reliance', 'mumbai'),

(10004, 'Global Supplies', 'Delhi');

INSERT INTO Part (pid, pname, color, weight) VALUES

(20001, 'Book', 'Red', 1.50),

(20002, 'pen ', 'red', 0.50),

(20003, 'pencil', 'green', 0.30),

(20004, 'mobile', 'green', 0.10),

(20005, 'charger', 'black', 0.05);

INSERT INTO Supply (sid, pid, cost) VALUES

(10001, 20001, 10.00),

(10001, 20002, 10.00),

(10001, 20003, 30.00),

(10001, 20004, 10.00),

(10001, 20005, 10.00),

(10002, 20001, 10.00),

(10002, 20002, 20.00),

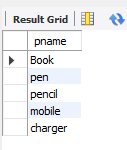
(10003, 20003, 30.00),

(10004, 20003, 40.00);

SELECT DISTINCT Part.pname

FROM Part

JOIN Supply ON Part.pid = Supply.pid;



SELECT sname

FROM Supplier

WHERE NOT EXISTS (

SELECT pid

FROM Part

WHERE pid NOT IN (

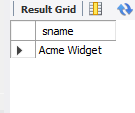
SELECT pid

FROM Supply

WHERE Supply.sid = Supplier.sid

)

);



SELECT sname

FROM Supplier

WHERE NOT EXISTS (

SELECT pid

FROM Part

WHERE color = 'Red' AND pid NOT IN (

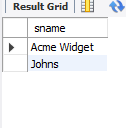
SELECT pid

FROM Supply

WHERE Supply.sid = Supplier.sid

)

);



SELECT pname

FROM Part

WHERE pid IN (

SELECT pid

FROM Supply

WHERE sid = (SELECT sid FROM Supplier WHERE sname = 'Acme Widget')

)

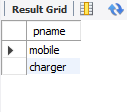
AND pid NOT IN (

SELECT pid

FROM Supply

WHERE sid != (SELECT sid FROM Supplier WHERE sname = 'Acme Widget')

);



SELECT DISTINCT Supply.sid

FROM Supply

JOIN (

SELECT pid, AVG(cost) AS avg\_cost

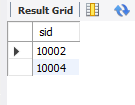
FROM Supply

GROUP BY pid

) AS AvgCost

ON Supply.pid = AvgCost.pid

WHERE Supply.cost > AvgCost.avg\_cost;



SELECT p.pid, s.sname

FROM Part p

JOIN Supply sp ON p.pid = sp.pid

JOIN Supplier s ON sp.sid = s.sid

WHERE sp.cost = (

SELECT MAX(cost)

FROM Supply

WHERE pid = p.pid

);

