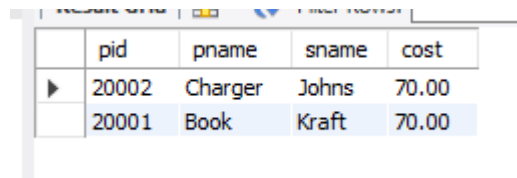# Week-8 Supplier Database additional queries

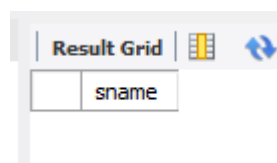use sup;

SELECT p.pid, p.pname, s.sname, c.cost

FROM Catalog c

JOIN Part p ON c.pid = p.pid

JOIN Supplier s ON c.sid = s.sid

WHERE c.cost = (SELECT MAX(cost) FROM Catalog);

pid	pname	sname	cost
20002	Charger	Johns	70.00
20001	Book	Kraft	70.00

SELECT s.sname

FROM Supplier s

WHERE NOT EXISTS (

   SELECT 1

   FROM Catalog c

   JOIN Part p ON c.pid = p.pid

   WHERE c.sid = s.sid

   AND p.color = 'red'

);

Result Grid
sname

SELECT s.sname,

    SUM(c.cost) AS total_value

FROM Supplier s

LEFT JOIN Catalog c ON s.sid = c.sid

GROUP BY s.sname;

sname	total_value
Acme Widget	225.00
Johns	200.00
Reliance	110.00
Kraft	95.00

```
SELECT s.sname

FROM Supplier s

JOIN Catalog c ON s.sid = c.sid

WHERE c.cost < 20

GROUP BY s.sname

HAVING COUNT(*) >= 2;
```

```
SELECT p.pid, p.pname, s.sname, c.cost

FROM Catalog c

JOIN Part p ON c.pid = p.pid

JOIN Supplier s ON c.sid = s.sid

WHERE c.cost = (

    SELECT MIN(c2.cost)

    FROM Catalog c2

    WHERE c2.pid = c.pid

)

ORDER BY p.pid;
```

pid	pname	sname	cost
20001	Book	Johns	45.00
20002	Charger	Acme Widget	60.00
20003	Mobile	Reliance	30.00
20004	Pen	Johns	35.00
20005	Pencil	Reliance	15.00

```
CREATE VIEW SupplierPartCount AS

SELECT s.sid, s.sname, COUNT(c.pid) AS total_parts

FROM Supplier s

LEFT JOIN Catalog c ON s.sid = c.sid

GROUP BY s.sid, s.sname;
```

```sql
CREATE VIEW MostExpensiveSupplierPerPart AS

SELECT c.pid, p.pname, s.sname, c.cost

FROM Catalog c

JOIN Part p ON c.pid = p.pid

JOIN Supplier s ON c.sid = s.sid

WHERE c.cost = (

    SELECT MAX(c2.cost)

    FROM Catalog c2

    WHERE c2.pid = c.pid

);


DELIMITER $$


CREATE TRIGGER prevent_low_cost

BEFORE INSERT ON Catalog

FOR EACH ROW

BEGIN

  IF NEW.cost < 1 THEN

    SIGNAL SQLSTATE '45000'

      SET MESSAGE_TEXT = 'Cost cannot be less than 1';

  END IF;

END$$


DELIMITER ;


DELIMITER $$

CREATE TRIGGER set_default_cost

BEFORE INSERT ON Catalog

FOR EACH ROW

BEGIN
```

```
    IF NEW.cost IS NULL THEN

        SET NEW.cost = 50;

    END IF;

END$$
```