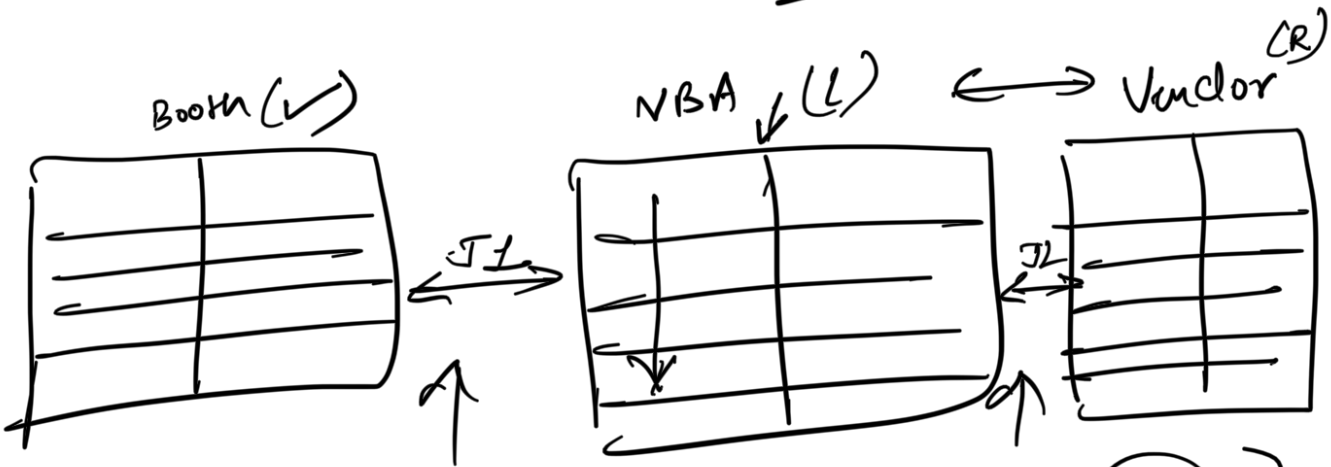
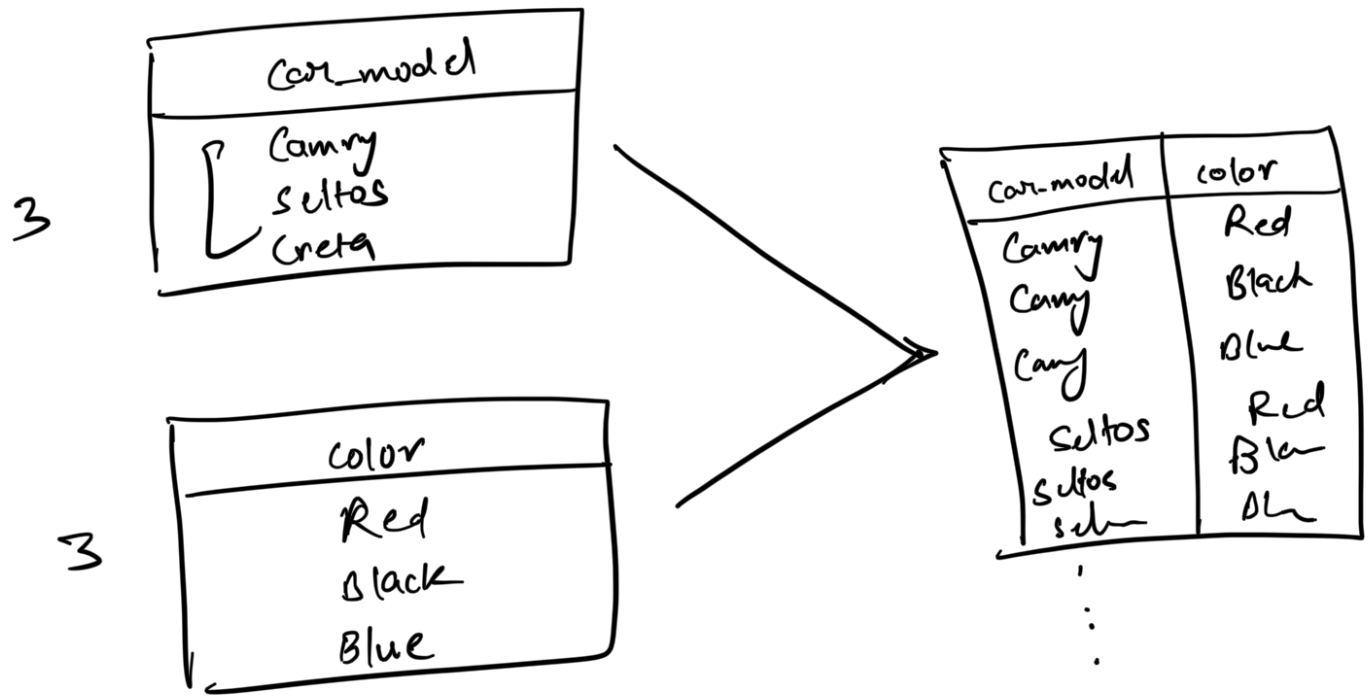
Joins Contd.

Q. We want all the details about farmer's market booths ① and their vendor booth ② assignment for every market date. along with their vendor details ③

③ tables → 1 table



10:22



3 X 3

CROSS JOIN → R1 X R2

4 3 ⇒ 12

Syntax:

```
SELECT
    C.car_model,
    C1.color
FROM car_model AS C
CROSS JOIN color AS C1
```

✓

② X

Q:

Employee (mgr)

emp_id	name	deptt_id	mgr_id
1	—	—	3
2	—	—	4
3	—	—	NULL
4	—	—	5
5	—	—	3

emp. mgr_id

mgr. emp_id

mgr. mname

Display each employee with their manager name.

emp_id	emp_name	mgr_name
1		xyz

A	B
1	2

C	D
3	4
5	6
7	8

A	B	C	D
1	2	3	4
1	2	5	6
1	2	7	8

SELF JOIN

```
SELECT
    emp.  emp_id,
    emp.  emp_name,
    mgr.  emp_name
FROM    employee  AS emp
JOIN    employee  AS mgr
ON      emp.mgr_id = mgr.emp_id
```

(1) (2)

Correlated Subquery

outer

```
SELECT
    emp.emp_id,
    emp.name
FROM employee AS e1
WHERE mgr_id = (SELECT emp_id
                FROM employee AS e2
                WHERE e2.emp_id = e1.mgr_id)
```

inner

Simple Subquery

Inner query → runs first

Outer query → runs after

Correlated Subquery * → Outer query → runs first
Inner query → runs after.

SELECT =
FROM tbl → tbl2 JOIN X
WHERE