

Views

A	B	C	Price	Amount
x	1	m	100	200
y	2	n	300	400
z	3	o	460	493

table 1

CREATE VIEW temp AS  
SELECT A, B FROM table1

# JOINS IN MYSQL

ID	Name
1	ARNOLD
2	BOB
3	CAT
4	DOG

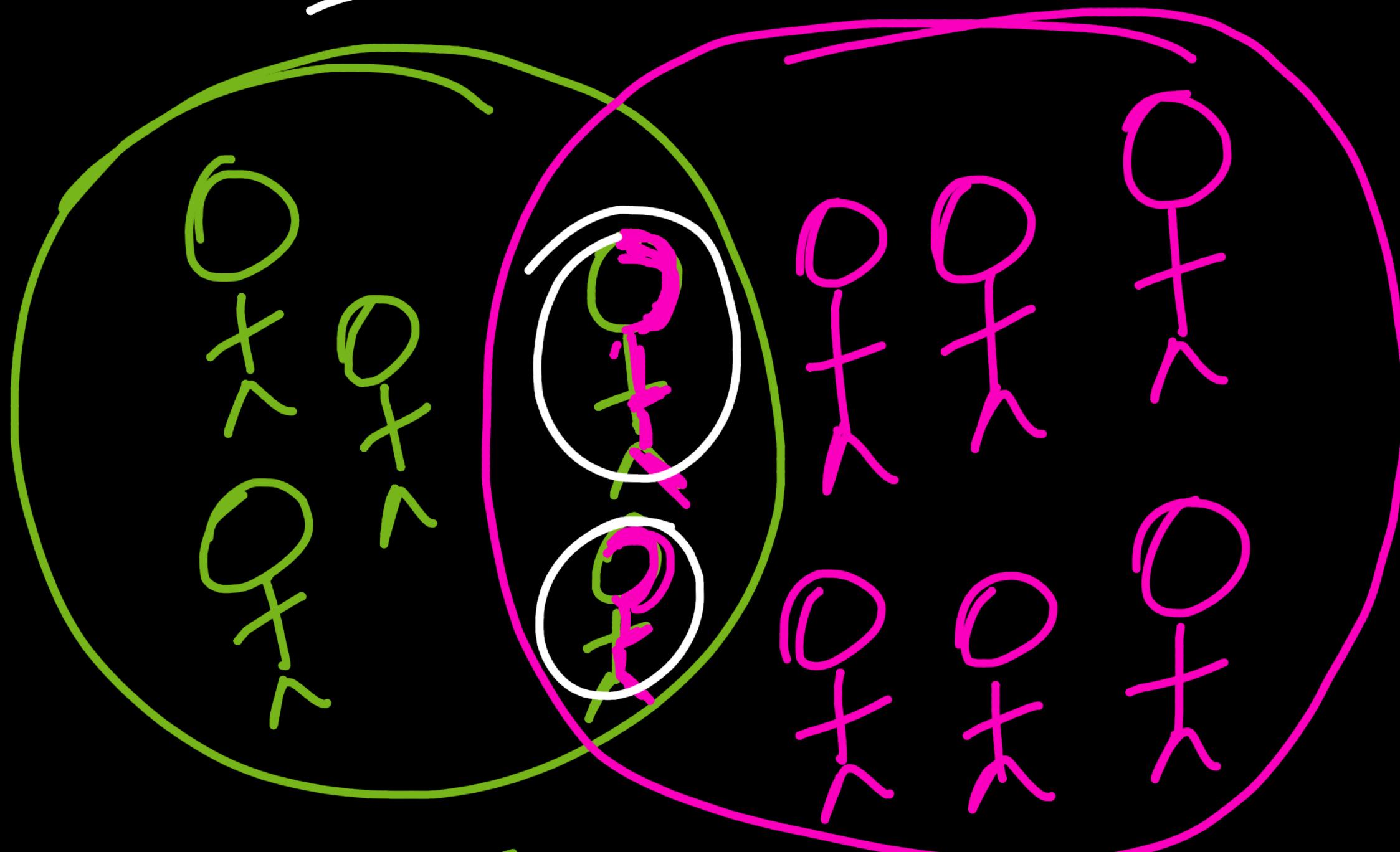
DANCE

ID	Name
3	CAT
4	DOG
5	LION
6	BEAR

MUSIC

- ① Who are the person  
doing dance as well as  
music?

INNER JOIN



DANCE

1	ID, Name
2	1, ARNOLD
3	2, BOB
4	3, CAT
5	4, DOG

DANCE

D.ID	M.ID
1	NULL
2	NULL
3	3
4	4

Left

ID, Name
3, CAT
4, DOG
5, LION
6, BEAR

MUSIC

Select D.ID, M.ID *Came first*

From DANCE AS D

LEFT JOIN MUSIC AS M

ON D.ID = M.ID

*Came later* RIGHT

ID, Name  
 3, CAT  
 4, DOG  
 5, LION  
 6, BEAR

D.ID	M.ID
3	3
4	4
NULL	5
NULL	6

Result

ID, Name  
 1, ARNOLD  
 2, BOB  
 3, CAT  
 4, DOG

MUSIC

Select D.ID, M.ID  
 FROM MUSIC AS M  
 LEFT JOIN DANCE AS D  
 ON D.ID = M.ID

DANCE

## Employee

<u>emp_id</u>	first_name	last_name	birth_date	sex	salary	<u>super_id</u>	branch_id
100	David	Wallace	1967-11-17	M	250,000	NULL	1
101	Jan	Levinson	1961-05-11	F	110,000	100	1
102	Michael	Scott	1964-03-15	M	75,000	100	2
103	Angela	Martin	1971-06-25	F	63,000	102	2
104	Kelly	Kapoor	1980-02-05	F	55,000	102	2
105	Stanley	Hudson	1958-02-19	M	69,000	102	2
106	Josh	Porter	1969-09-05	M	78,000	100	3
107	Andy	Bernard	1973-07-22	M	65,000	106	3
108	Jim	Halpert	1978-10-01	M	71,000	106	3

## Branch

branch_id	branch_name	mgr_id	mgr_start_date
1	Corporate	100	2006-02-09
2	Scranton	102	1992-04-06
3	Stamford	106	1998-02-13

## Works\_With

emp_id	client_id	total_sales
105	400	55,000
102	401	267,000
108	402	22,500
107	403	5,000
108	403	12,000
105	404	33,000
107	405	26,000
102	406	15,000
105	406	130,000

## Client

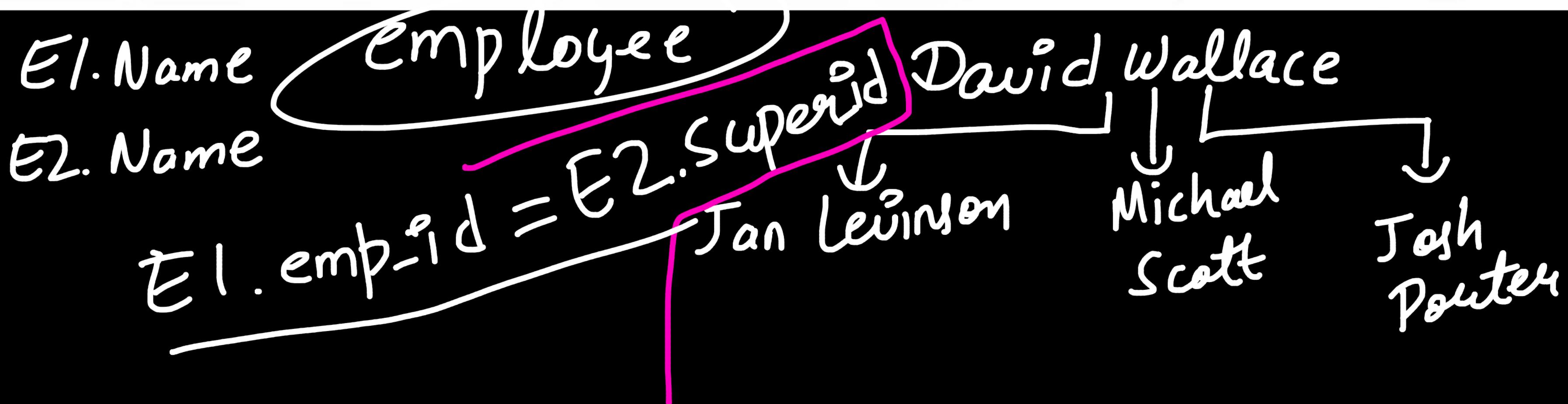
client_id	client_name	branch_id
400	Dunmore Highschool	2
401	Lackawana Country	2
402	FedEx	3
403	John Daly Law, LLC	3
404	Scranton Whitepages	2
405	Times Newspaper	3
406	FedEx	2

## Branch Supplier

branch_id	supplier_name	supply_type
2	Hammer Mill	Paper
2	Uni-ball	Writing Utensils
3	Patriot Paper	Paper
2	J.T. Forms & Labels	Custom Forms
3	Uni-ball	Writing Utensils
3	Hammer Mill	Paper
3	Stamford Lables	Custom Forms

Q1 Print Employee Name and their Supervisor Name  
 \* JOIN can be applied on the same table using ALIASING.

<u>emp_id</u>	first_name	last_name	birth_date	sex	salary	super_id	branch_id
100	David	Wallace	1967-11-17	M	250,000	NULL	1
101 ←	Jan	Levinson	1961-05-11	F	110,000	100	1
102 ←	Michael	Scott	1964-03-15	M	75,000	100	2
103	Angela	Martin	1971-06-25	F	63,000	102	2
104	Kelly	Kapoor	1980-02-05	F	55,000	102	2
105	Stanley	Hudson	1958-02-19	M	69,000	102	2
106 ←	Josh	Porter	1969-09-05	M	78,000	100	3
107	Andy	Bernard	1973-07-22	M	65,000	106	3
108	Jim	Halpert	1979-10-01	M	71,000	106	3



emp_id	Name
100	David ✓
101	Jan
102	Michael
103	Angela

E1 Name	E2 Name
David	Jan
David	Michael
David	Angela
Michael	

Name	super_id
David	NULL
Jan	100
Michael	100
Angela	102 X

E1

select E1.Name, E2.Name  
E1 JOIN E2

E2

ON E1.emp\_id = E2.super\_id

Q Answer these questions using JOIN  
write the JOIN query.

- (a) Print Branch Name and  
their Manager Name
- (b) Print client Name, EmpID  
and total sales related

## Methods / Functions

Stored Procedure  $\Rightarrow$  Query which  
you can call anytime.

DELIMITER ss

↑  
This will change the;  
delimiter from ;  
to ss

**DELIMITER &&**

CREATE PROCEDURE get\_territory\_offices()

BEGIN ✓

SELECT city, phone, territory FROM offices WHERE territory='EMEA';

END &&

Public static void getTerritory()

{

System.out.println(some data)

✓ [ def getTerritory()  
    println(—) ]

}