

Select Name from st order by Mark
 = ?
By default ASC

ID	NAME	CLASS	MARK	SEX
1	John Deo	Four	75	female
2	Max Ruin	Three	85	male
3	Arnold	Three	55	male
4	Krish Star	Four	60	female
5	John Mike	Four	60	female

st

Arnold ✓
 Krish Star ✓
 John Mike ✓
 John Deo
 Max Ruin

Select Purchase-number from
where item_code = B_2

SALES
ORDER BY customer_id
ASC

SALES			
purchase_number	date_of_purchase	customer_id	item_code
1	03/09/2016	1	A_1
2	02/12/2016	2	C_1
3	15/04/2017	3	D_1
4	24/05/2017	1	B_2
5	25/05/2017	4	B_2

4
5 | DESC?
 |
 |
 | 4

Select student-id from stu Order
By Name

<u>student id</u>	<u>name</u>	<u>major</u>
1	Jack	Biology
2	Kate	Sociology
3	Claire	English
4	Jack	Biology
5	Mike	Comp. Sci

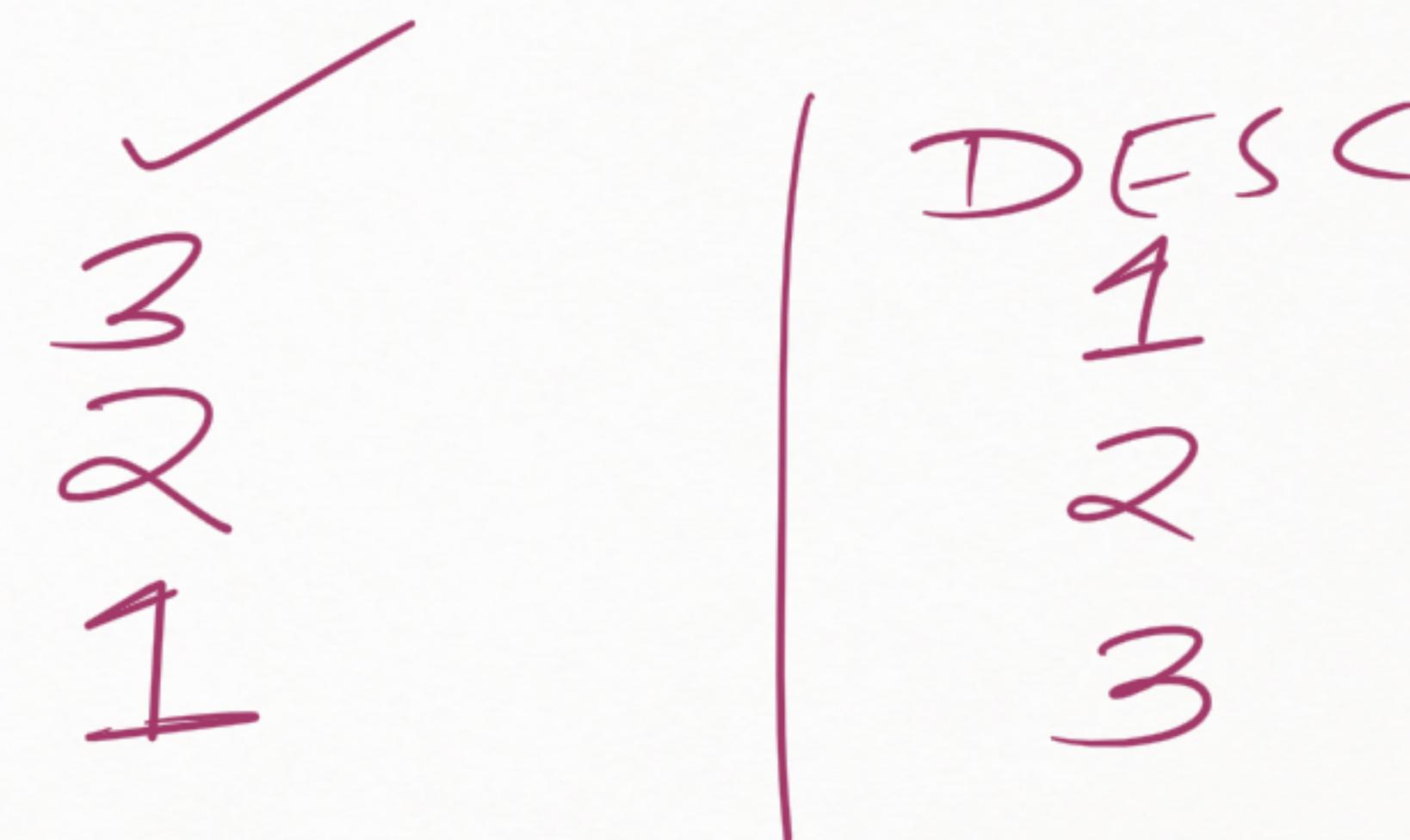
stu

✓ DESC
3 5
1 2
4 4
2 1
5 3

Selected Position from SenseX Order
By Date

Date	Name	Balance	Position
28-Apr-96	Upple	53.45	2
14-Aug-97	Crosoft	145.76	1
06-Sep-93	Ladobe	49.03	3

Sensex



Employee

emp_id	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	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

→ We have already created schema, Empty Tables already for company DB.
 → Fill the data.

Q Can we insert Jan, Levinson directly w/o inserting David Wallace.
 ⇒ Maybe yes but without super_id. (NULL)

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F.K

Q1. Which Row ^(of which table) should be 1st inserted so as there is no dependency.

OR

Is it not

Is there a

If Yes, what should we

do?

DEADLOCK

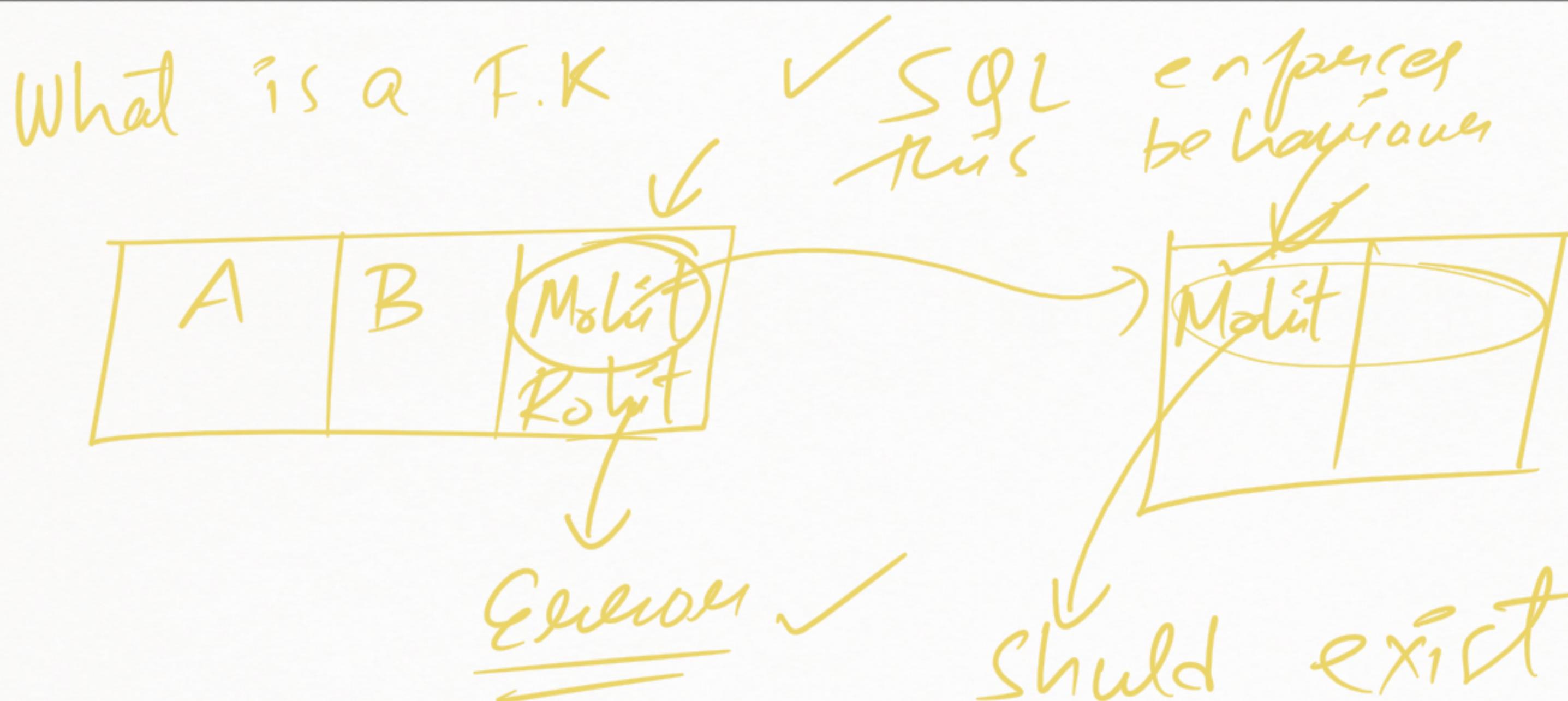
Possible?

Deadlock?

Should we

Chicken Egg

```
mysql> INSERT INTO employee VALUES(  
-> 100,'David','Wallace','1967-11-17','M',250000,NULL,1);  
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`mohit`.`employee`, CONSTRAINT `employee_ibfk_1` FOREIGN KEY (`branch_id`) REFERENCES `branch` (`branch_id`) ON DELETE SET NULL)  
mysql>
```



Homework

Complete would-unit
Client, and
Branch supplier
table.

Group By

<u>student id</u>	<u>name</u>	<u>major</u>
1	Jack	Biology
2	Kate	Sociology
3	Claire	English
4	Jack	Biology
5	Mike	Comp. Sci

It
= Grouping

Select major FROM It
GROUP BY major

Biology ✓
Sociology ✓
English ✓
Comp. Sci ✓

Select sex From Class
Group By Sex

+-----+ <th> id name class mark sex </th>	id name class mark sex			
1	John Deo	Four	75	female
2	Max Ruin	Three	85	male
3	Arnold	Three	55	male
4	Krish Star	Four	60	female
5	John Mike	Four	60	female
6	John b0OM	TWO	75	female

Class

Class

female

male

Class

- # Aggregate functions Any column or *
- Count () → It counts the no. of Rows
 - Sum () ← Part Column / Expression
 - Min () ← "
 - Max () ← "

How many employee in
a Particular Branch? (ref: classic models DB)