

Issues in Installation?

Please type issue in chat.  
If not then say No.

\* Show databases;  
Display existing DB's

\* SQL is not case sensitive

\* show tables  
Displays all the tables in  
the DB

Product line	text desc	html desc	image
—	✓	✓	✓
Product line	A	B	C

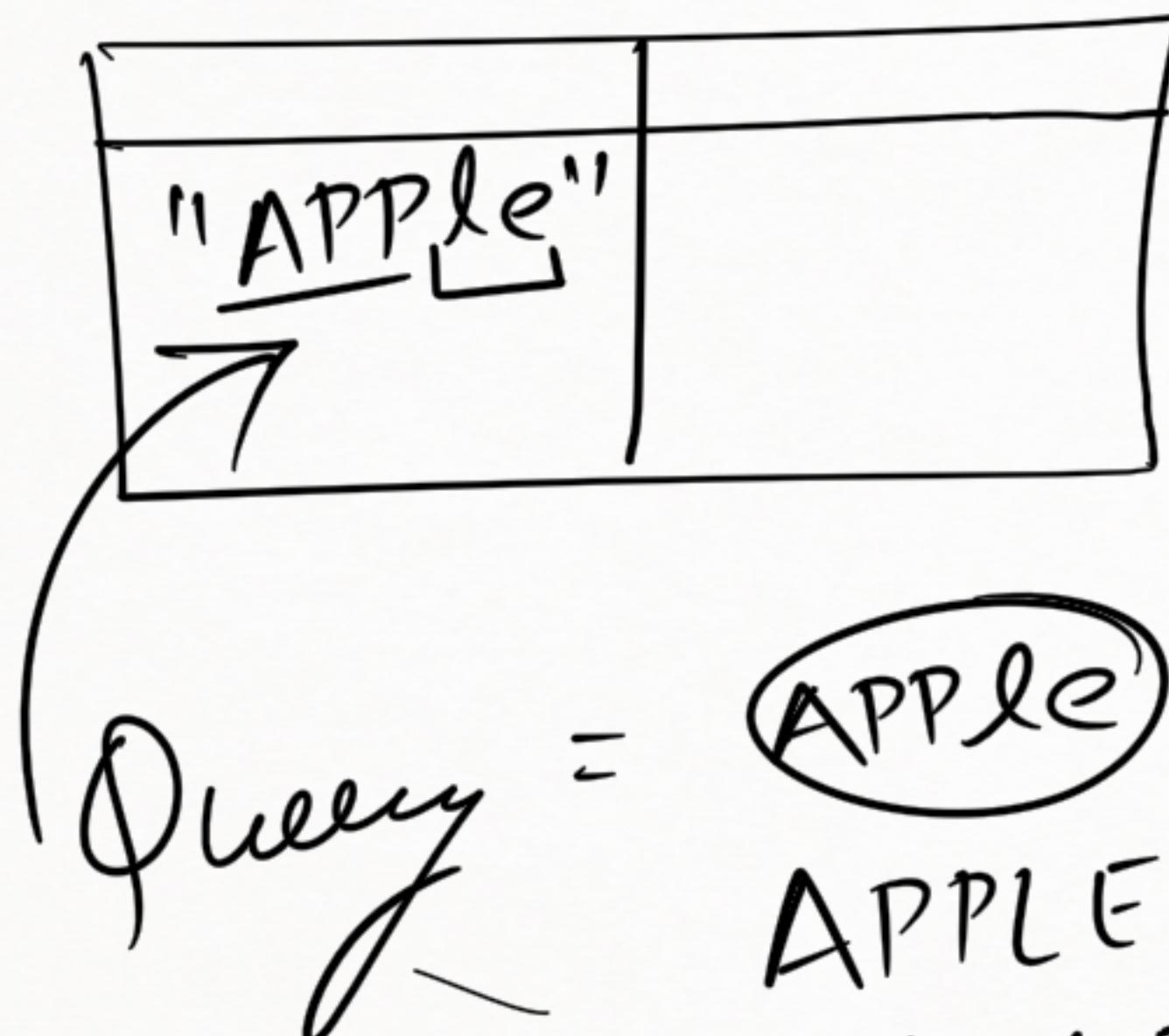
Product lines

↑ for this  
table

Schema

Product lines
Product line
text desc
html desc
image

## CASE Sensitivity



SCHHEMA  
command?

SHOW

DATABASES;

Show

databases;

$a = S$   
 $a = 'molt'$

later

Field	Type	Null	Key	Default	Extra
productLine	varchar(50)	NO	PRI	NULL	
textDescription	varchar(4000)	YES		NULL	
htmlDescription	mediumtext	YES		NULL	
image	mediumblob	YES		NULL	

mysql> desc productlines;  
4 rows in set (0.00 sec)

- \* Use a delimiter after every SQL statement ; (semicolon) (Readable)
- # General Rule followed by people : (Coding Convention)
  - ① Keywords of SQL => CAPITAL  
SELECT, USE, SHOW, DESC
  - ② Not a Keyword of SQL => small  
USE classicmodels

# Types of SQL Commands  
(DQL)

- ① Data Query Language (DQL) CREATE, DROP, etc
  - ② Data Definition Language (DDL) GRANT, REVOKE
  - ③ Data Control Language (DCL) INSERT, UPDATE  
DELETE
  - ④ Data Manipulation Language (DML)
  - ⑤ Transaction Control Language (TCL) ROLLBACK  
COMMIT

# ① Data Definition Language (DDL)



A	B	C
2	Syed	blah
3	Suvan	blah
4	=	=

Table 1

Specifying  
Schema.

Schema  
→ A int  
→ B string  
→ C string

the table's

Examples  
CREATE  
DROP  
ALTER  
TRUNCATE  
etc.

## ② Data Manipulation Language

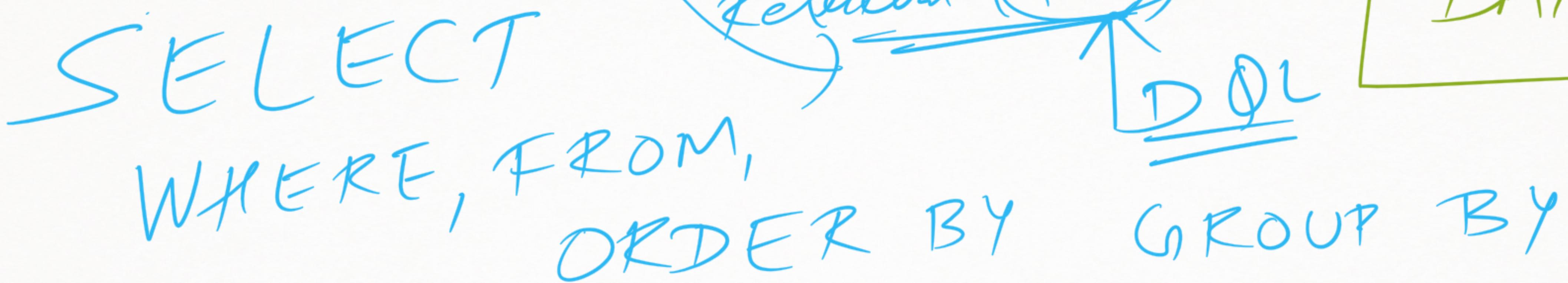
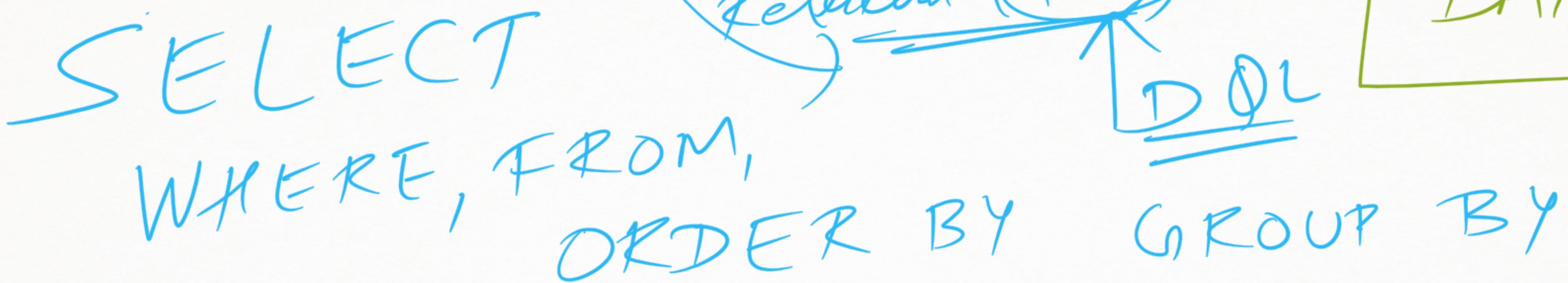
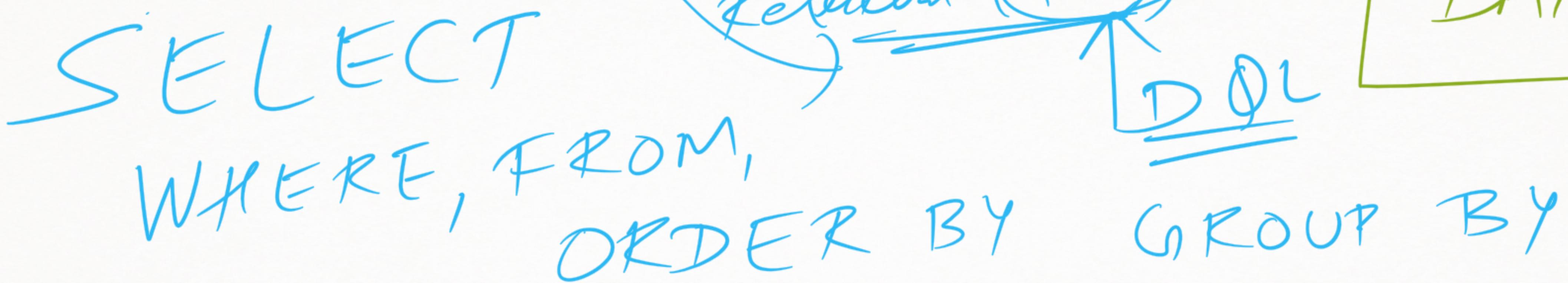
A	B	C
1	guaran	bhali
2	Syed	clth.
3	Vermind	<del>bhali</del> Ciao

Manipulating the  
data inside the  
tables

INSERT  
UPDATE  
DELETE

### ③ Data Query Language \* Most Interesting

A	B	C
1	gaurav	blah
2	Syed	Blah
3	Venni	Ciao

SELECT  
WHERE, FROM,  
ORDER BY      GROUP BY  
 Retrieval Query  
 Grouping Query  
 Ordering Query

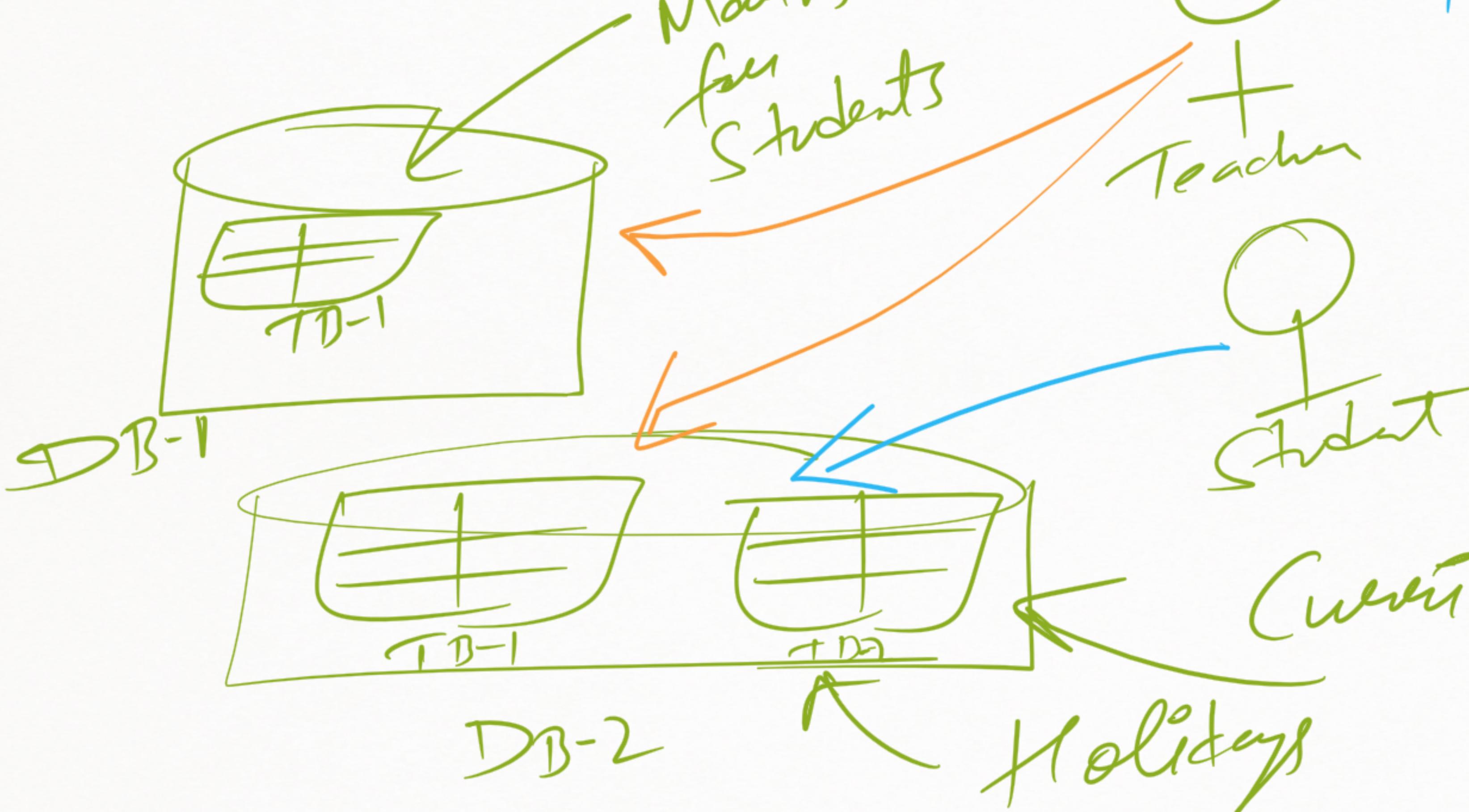
Question: What is the  
C for Venni  
=> CIAO ✓

Querying  
the entity  
DATA

④ Data

Content Language

Access  
Rights for diff.  
Users



## ⑤ Transaction Control language

CASE : MONEY IS DEDUCTED  
BUT NOT RECEIVED  
BY the Receiver

BANK Account

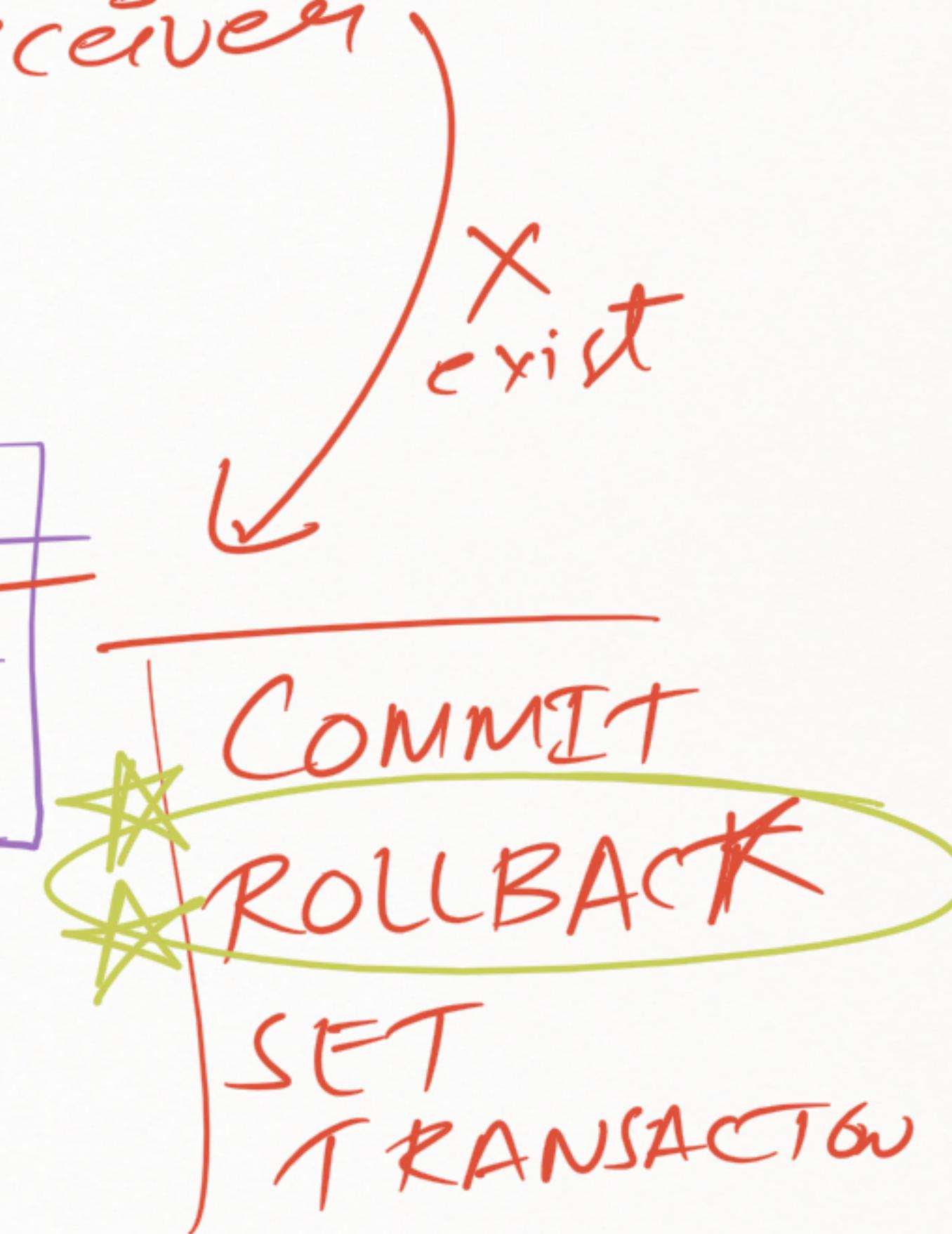
Handling under TCL  
falls under these cases

MONEY	DATE	TYPE
		UPI
-500	30-Nov	
+1000	30-Dec	
<del>+500</del>	5-Nov	UPI Reversal

Multisync Act

MONEY	DATE
-1500	3 Nov

VAMSI'S  
SBI ACT



NAME	DOB
Aditya	5-Dec-2008
Rajesh	4-April-2018
Vamshi	3-March-2015

CHAR  
(Basically a string)

DECIMAL(9,1)

300.6, 888.8  
5.3

# Core Data Types

① INT

1,2,3  
✓  
3.5 X

② DECIMAL(a,b)

MAX  
LIMIT

total  
no of digits

DECIMAL(3,1)

✓ 80.9

✓ 8.3

✓ 70.4

✓ 32.5

✓ 800.3 X

no. of  
digit  
after  
decimal

✓ 3.52

③ DATE ← By default  
"YYYY-MM-DD"

NAME	DOB
Syed	"2018-12-01"

# → DATE Format functions

④ VARCHAR(10) String of size 10  
Max No. of chars

~~G A U R A V A T I A V~~  
~~A V~~ Extension

G A U R A V A T I A V . 1 . 1 . 1 .

⑤ Time stamp

"YYYYYY-MM-DD-HH:MM:SS"

⑥ BLOB  
(Binary Large Object)

Stores large amount  
of binary Data

→ Image?  
→ Audio → Video

```
mysql> CREATE TABLE cricket(NAME VARCHAR(25),TOTAL_MATCHES INT  
-> ,STRIKE_RATE DECIMAL(3,2));  
Query OK, 0 rows affected (0.07 sec)
```

```
mysql> SHOW TABLES;
```

Tables_in_example_2
cricket
dance
music

3 rows in set (0.00 sec)

How to Create  
a  
Table  
==

SYNTAX: CREATE TABLE Cricket(NAME VARCHAR(25),  
TOTAL\_MATCHES INT, STRIKE\_RATE DECIMAL(3,2)),

(User's Data) ✓

~~R.W.D~~ Create a Table

Timestamp

Name	Subject	DOB	Time of Admission

Student

- ② Revise WID1 PDF ✓  
WID2 PDF ✓