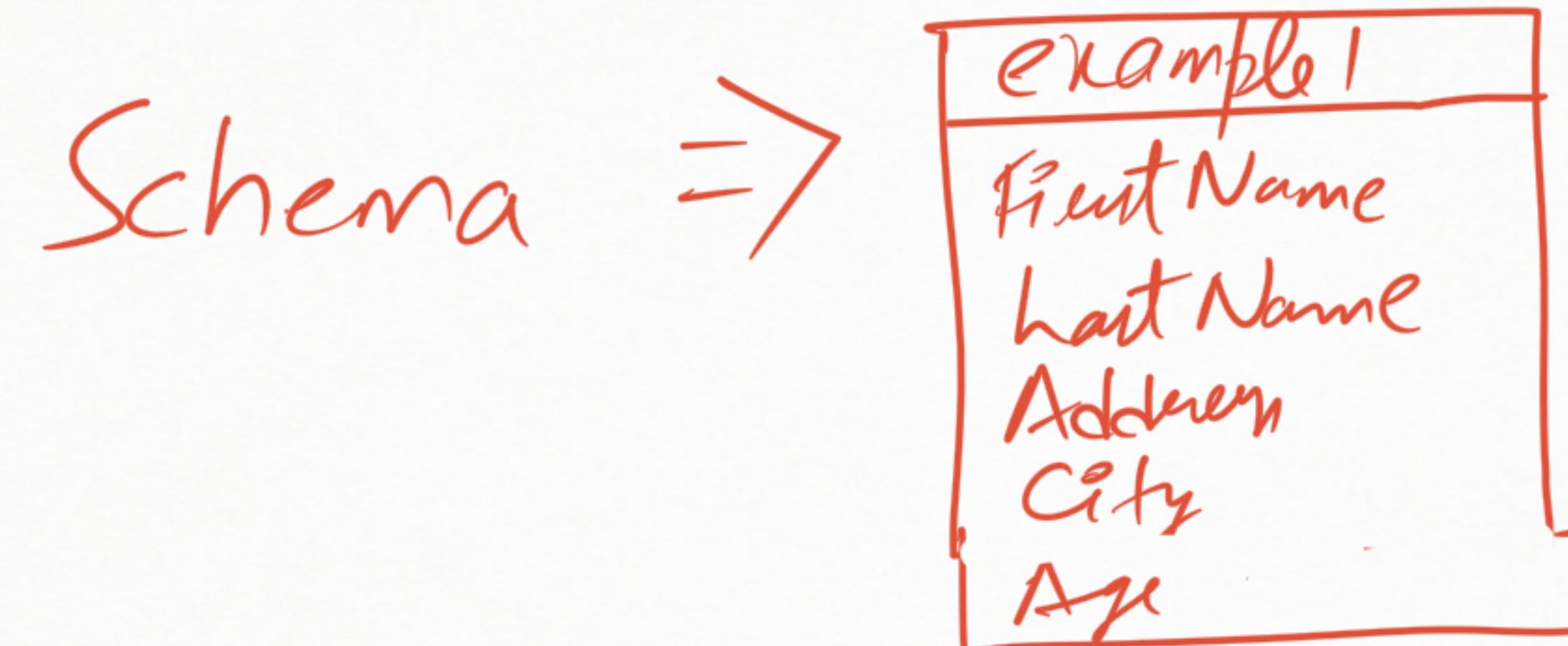


example - 1

First Name	Last Name	Address	City	Age
Mickey	Mouse	123 Fantasy Way	Anaheim	73
Bat	Man	321 Cavern Ave	Gotham	54
Wonder	Woman	987 Truth Way	Paradise	39
Donald	Duck	555 Quack Street	Mallard	65



Types of SQL (Commands)

SELECT, FROM, etc

- ① Data Query Language (DQL)
CREATE, DROP, etc
- ② Data Definition Language (DDL)
PRIVILEGING ACC^{ON}
GRANT, REVOKE
- ③ Data Control Language (DCL)
Data inside the table
INSERT, UPDATE
DELETE, etc
- ④ Data Manipulation Language (DML)
- ⑤ Transaction Control Language (TCL)
ROLLBACK
COMMIT
Savepoint

① Data Definition Language (DDL)

	^{int} purchase_number	^{DATE} date_of_purchase	^{int} SALES	^{int} customer_id	^{int} 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

Example

CREATE
DROP
ALTER
TRUNCATE
etc.

Structuring the table &
Schema.

②

Data

Manipulation language

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

Modifying/Manip.
the
Actual
Data

Example

INSERT
UPDATE
DELETE

③ Data Query Language

No.	Full Name	Position
1	<u>Bill Gates</u>	Founder Microsoft
2	Steve Jobs	Founder Apple
3	Larry Page	Founder Google
4	Mark Zuckerberg	Founder Facebook

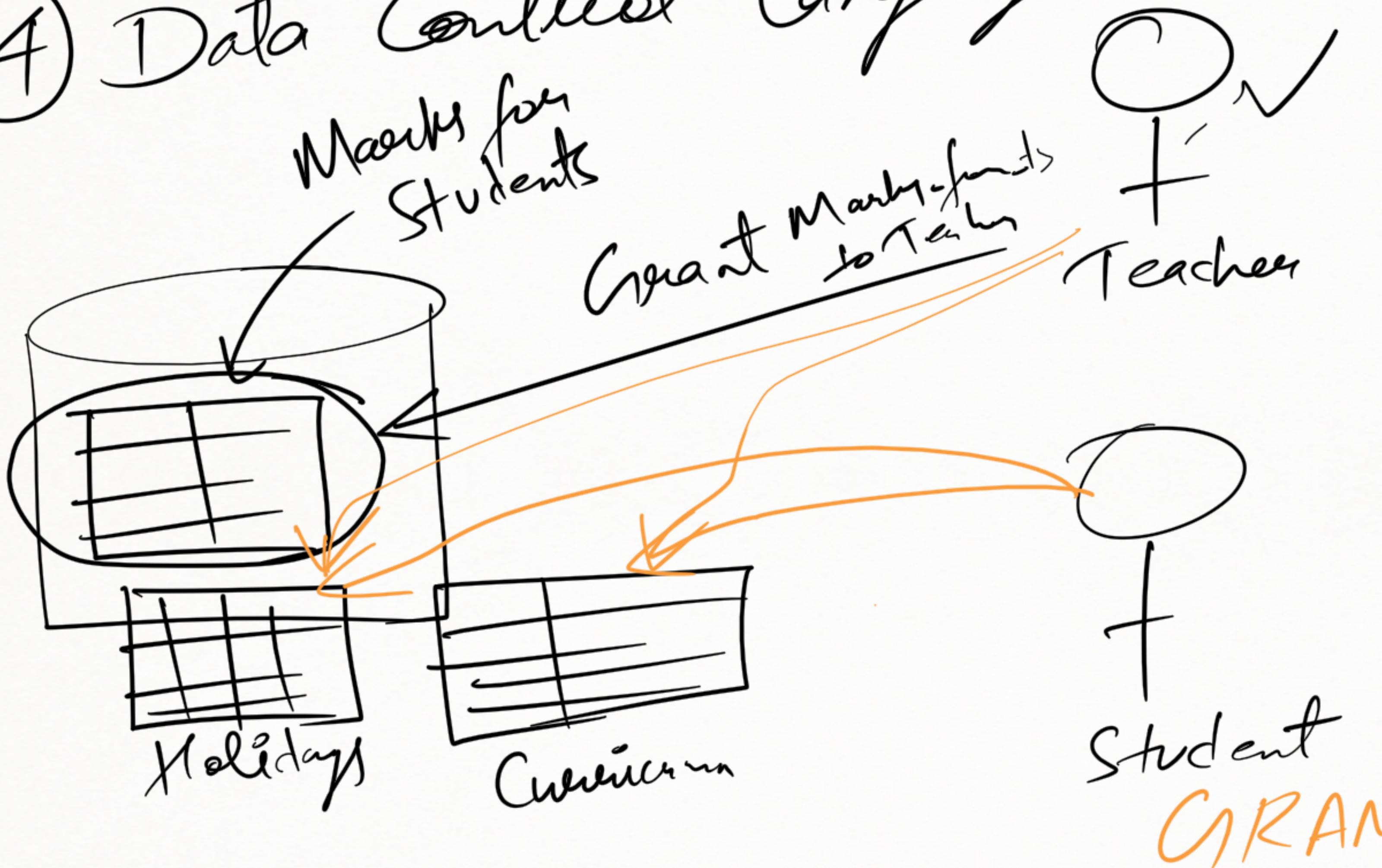
Query the existing
data

Select, from etc.

Query => What is the position of Bill Gates?

Query => What is fullName of Founder of Google?

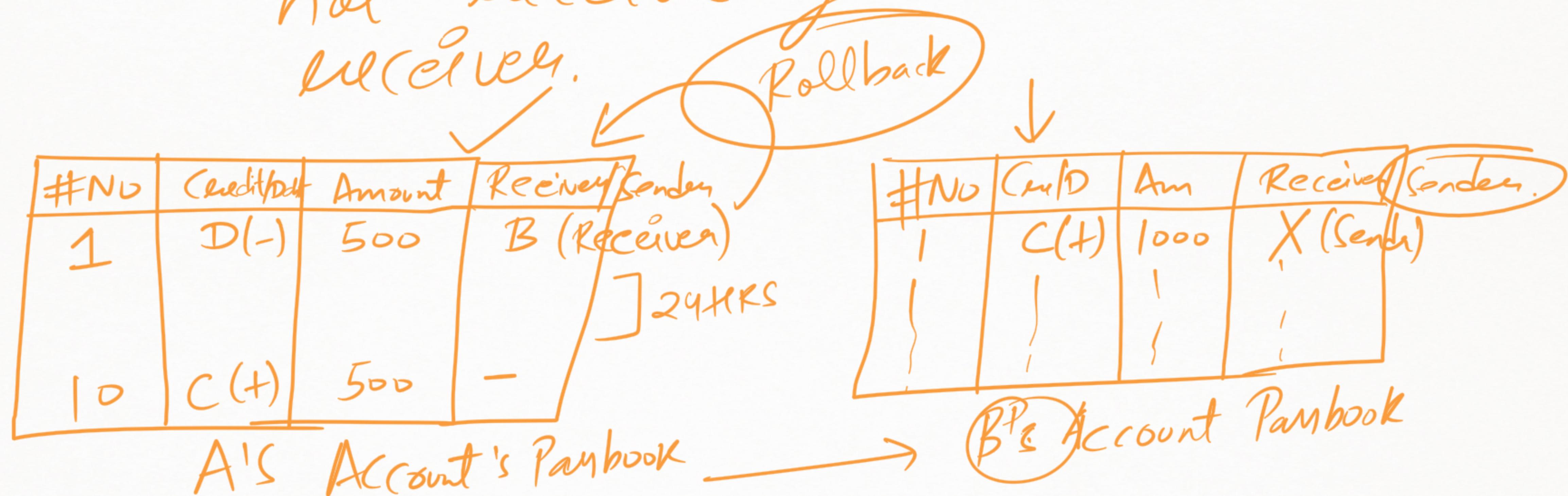
④ Data Control Language



Access
Privileges
Rights
Permission

⑤ Transaction Control Language

CASE : Money is deducted but not received by the receiver.



Core Data Types in SQL

① INT

② DECIMAL (a, b)

DECIMAL(4, 2) Total
No of Digits

No of Digits after decimal

80.55

The diagram illustrates the structure of a DECIMAL(4,2) value. It shows the total number of digits (4) and the number of digits after the decimal point (2). The value 80.55 is broken down into its components: 8, 0, ., 5, and 5.

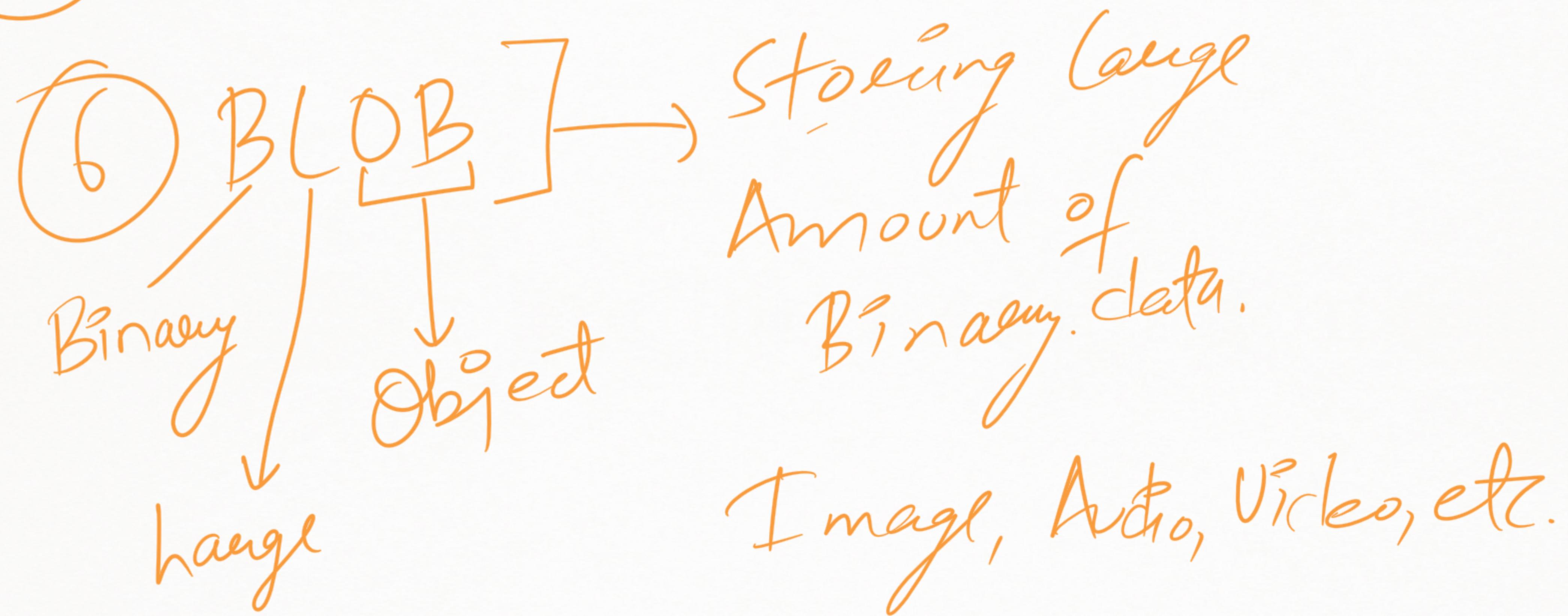
③ DATE "yyyy-mm-dd" ← By default

"2016-08-14"

④ VARCHAR(10) ← No of Max CHARS

Z	A	U	R	T	E	Z			
---	---	---	---	---	---	---	--	--	--

⑤ TimeStamp "YYYY-MM-DD-HH:mm:ss"



How to Create a Table

CREATE

etc, etc);

Table name (col-name datatype,

First Name	Last Name	Address	City	Age
Mickey	Mouse	123 Fantasy Way	Anaheim	73
Bat	Man	321 Cavern Ave	Gotham	54
Wonder	Woman	987 Truth Way	Paradise	39
Donald	Duck	555 Quack Street	Mallard	65