Agenda

a. Select Statement Syntax

b. Limit Clause

c. OFFSET

d. Order By Clause

e. Inline Calculations

f. Concat/ Substring in String

g. Where Clause

→ RDBMS

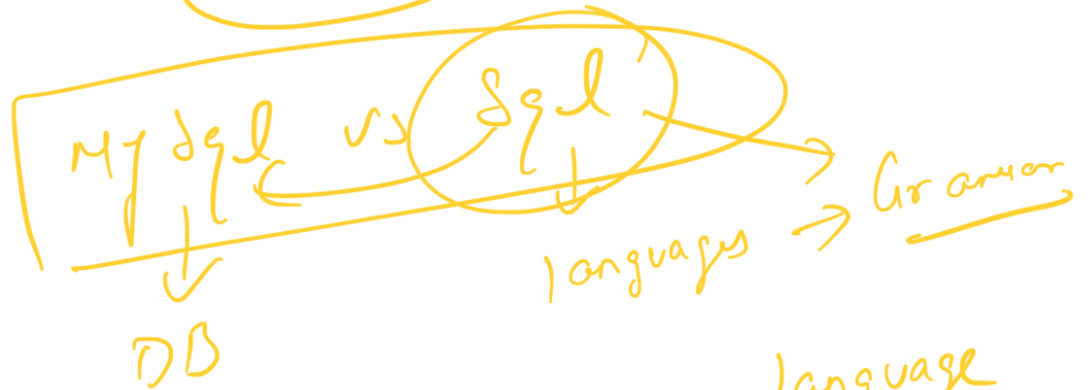

SQL

char → words → Sentences

Qn.1 old are how you ?

Grammar → Set of ruls

My sql vs Sql → Grammar

↓
DB

languages → Grammer

SQL = Stonchurd Query Language

SQL ✗ Commands

(Data Definition language) ✓	(Data Manipulation lang) ✓		DA/DS	
DDL	DML	TCL ✗	DQL	DCL ✗
→ CREATE	→ INSERT	→ COMMIT	→ SELECT ↑	→ GRANT
→ DROP	→ UPDATE	→ ROLLBACK		→ REVOKE
→ ALTER	→ DELETE	→ SAVEPOINT		
→ TRUNCATE				DB Admin
		DB Engineer		
		Txn Control language	Data Query Language	Data Control language

SP

Kamth → Bank → Swisto ✓
        −100
        +100

Syntax:-

→ ① SELECT [columns to return]

→ ② FROM [table name]

③ ✓ WHERE [conditional filter]

④ GROUP BY [columns]

⑤ Having [conditional filter
                rows after
                        group]

⑥ ORDER BY [columns to sort on]

⑦ LIMIT [first x no. of rows to
                    be selected]

⑧ OFFSET

PK

Cid

	A	S	DL
1	A	S	
2	A	Sm	
3	A	Sm	MU
4	A	Si.	NY
	A	Sm	NY

Rows

not
columns

Interview Question:-

(PK)

employe

400

eid	e Nam	esal	edept
1	A	100	IT
2	B	200	IT
3	C	300	IT
4	D	400	HR
5	E	500	AD

X 0
X 1
X 2
3
4

limit 1 offset 3 ;

⇒ Get me second lowest salary from Employee?
(Hint use limit clause)

Answer = Select *
from employee
LIMIT 1
OFFSET 1 ;

⇒ 4th lowest salary ?

X 0
X 1
2
3
4

		100	
		400	
		300	
		200	
		700	

Select * from employee
1. + 2 offset 2 ;

UMII - IT

id	Name	Dept	Sal	APP
1	A	IT	400	10
2	B	IT	350	10
3	C	IT	400	10
4	D	IT	360	12
5	E	HR	800	15
6	F	HR	700	15

Order by Salary Commison desc

Sal

2	B	IT	350	10	✓
4	D	IT	360	12	✓
1	A	IT	400	10
3	C	IT	400	20
6	F	HR	700	15
5	E	HR	800	15

400	20
700	15
800	15
360	12

350	10 B
360	12 D
400	20 C

①

Sal asc, g
Comm desc
Name asc 7

400	10
400	
350	10

400	(10)	A
700	15	E
800	15	E

Sal

		100	700
		700	600
		300	400
		400	300
		600	100

0
1
2
3
4

Order by Sal desc
limit 7 offset 1