

DBMS - VII

SUB-QUERIES

A BUILT-IN

FUNCTIONS

① Sub-queries

- where can we use

- types

- Select, From, where

- co-related sub

② Built-in functions

- string, date, numeric

① Explain - query optimisation

② Views,

③ Indexes

④ Transactions
+ window, cascade

NoSQL

↳ HLD

↳ Async

ORM

↳ LLD

Splitwise

↳ JPA - micro ORM

-
- Hibernate) → Caching
 - Jboss) → Search
 - JPA - micro-ORM
 - Interacts

Interview

→ DB round

→ Screening

→ the main database ?

↳ Primary

→ ACID

→ Indexes

→ Transactions



→ LLD

↳ queries

{ DDL ✓
DML ✓



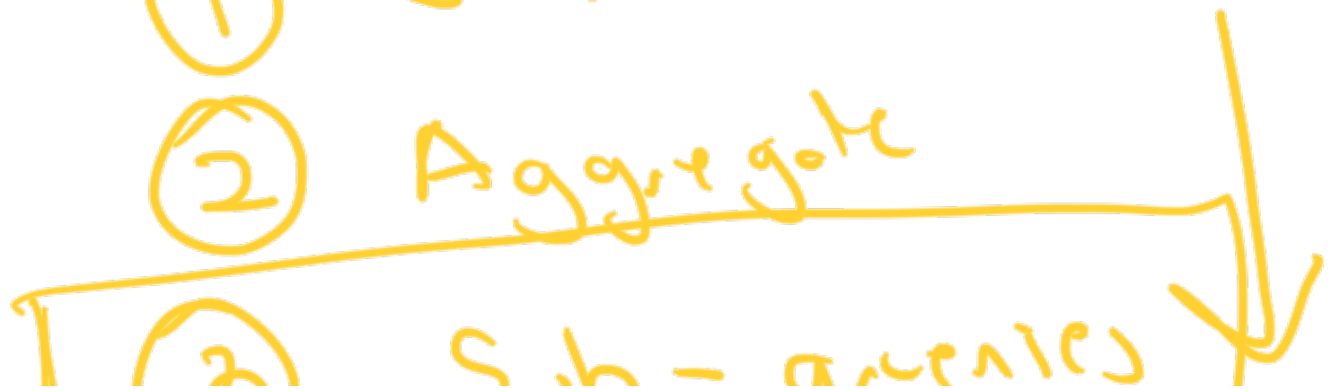
① Join

② Aggregate

~~DCL~~

~~TCL~~

② Sub-queries





HLD = sharding
- partitioning

Sub queries

DML → Joins
Aggregates

- ① sub
- ② functions

- ↳ date
- ↳ numeric

- Sub-queries

→ nested queries

- ↳ SELECT
- ↳ FROM
- ↳ WHERE

... ..

readability



① Comparison -

② existence -

③ inclusion

id	name	age
	○	

↑ str ↑ int

value → Tahmay

SOL Injection

↳ name Tammog

"



ORM - SOL injection

- code

~~React~~ (negative)

- FP - React innove

- cleaning - OVASP

Select *

where id = 1

index

↓
id



→ Table Sean

→ Table Sean

→ | Linked List | →

$O(1)$

~~$O(2)$~~

hash map

red block tree

⇒ Get value



tree



$O(1)$

$\log(n)$



Get and inde

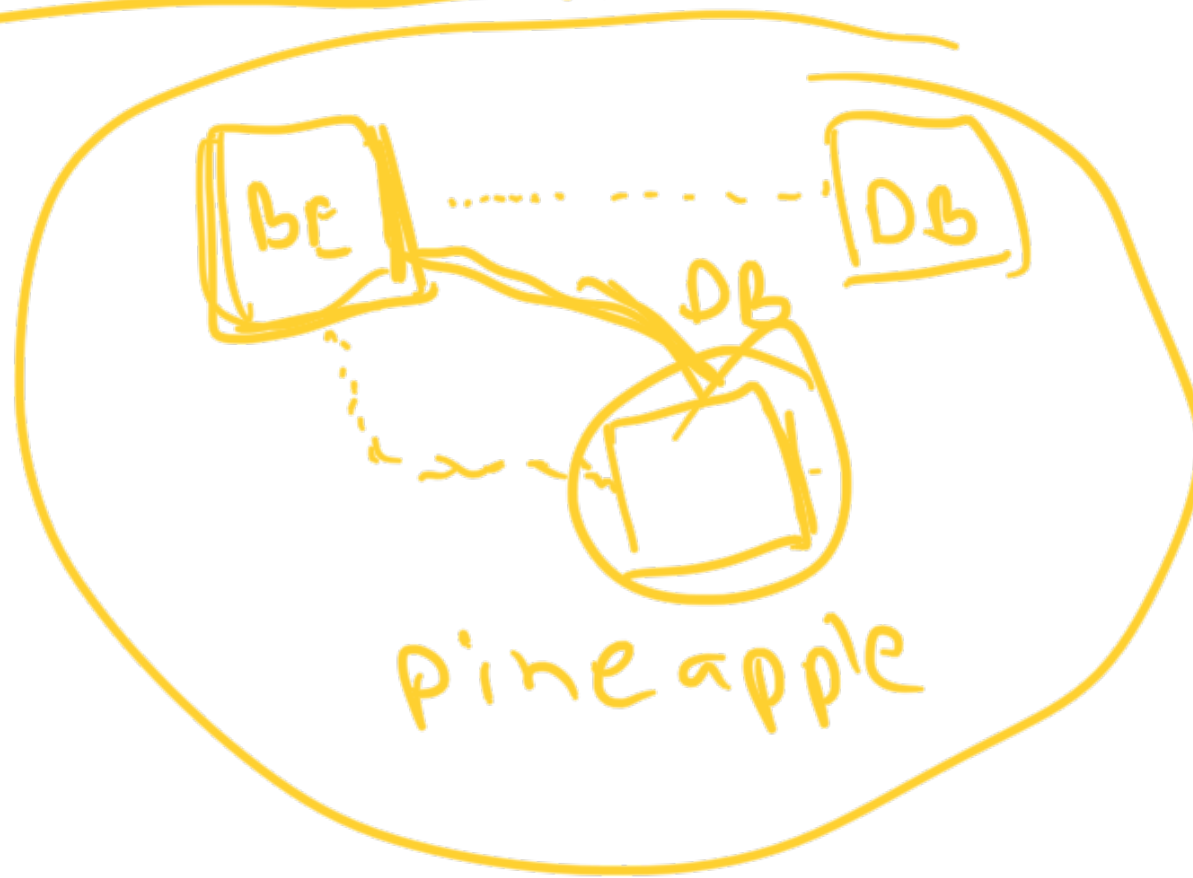


$\log(n)$

B+

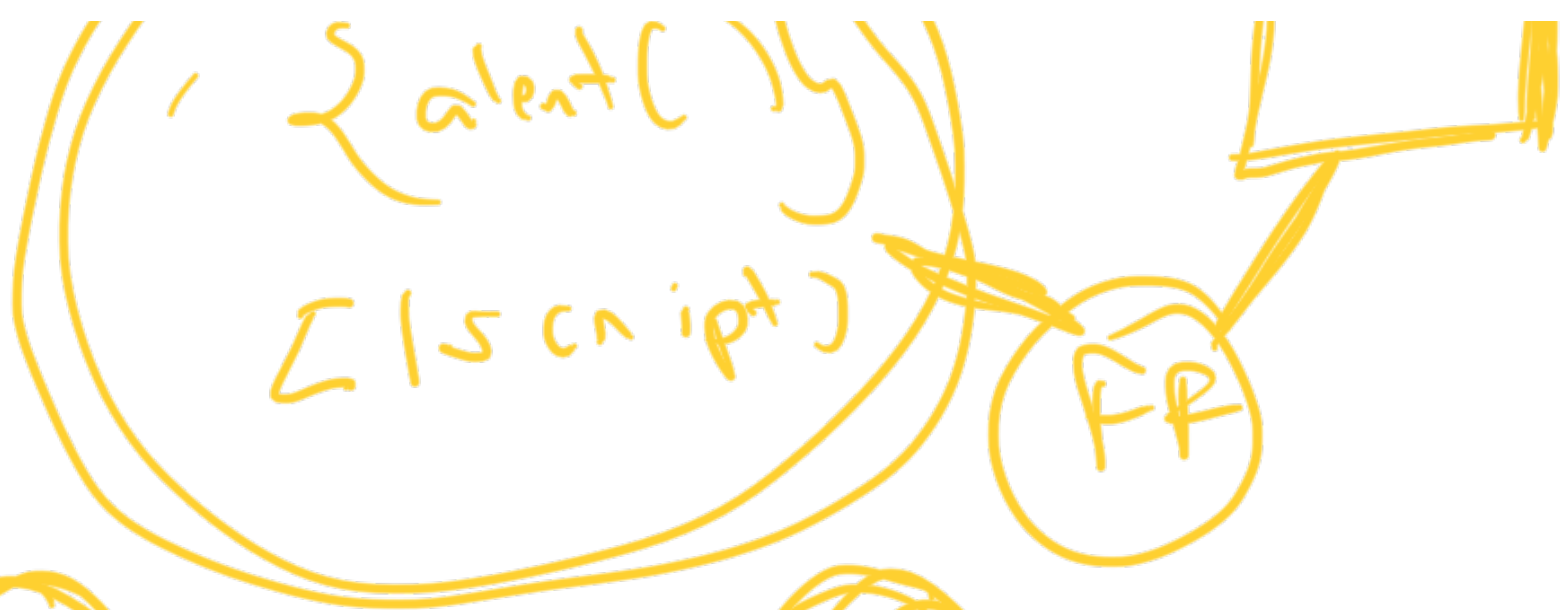
① SQL injection

② MOTM



VPC





FE + BE + DB



FR

Developer



management





Managers \Rightarrow developers

DSA - Leetcode

LLD - System design

— Calculator

LLD - Ocr

661)

- tictactoe

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