KEYS & CRUD

- Agenda:-
 - O Reviee Superkey & candidate key.
 O Primary key
 O Good Practices for PK
 - O composite key
 - O Introduction to SBL
 O Creation of Database
 O Creation of Table
 - O Foreign keys
 O constraints with FK
 - O Practical



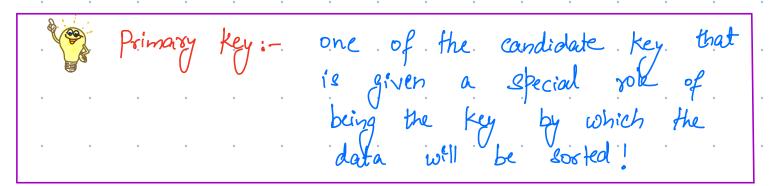
| student-id | class-id | attendance |
|------------|----------|------------|
| . 1 | ٠ چ ٠ | 70 V. |
| . 1 | . 7. | 80% |
| 2 . | ٠ ٣٠٠ | 70% |

| Columne | SK. | CK |
|----------------------------------|-----|----|
| (student-id) | × | > |
| (class-id) | × | * |
| (attendance) | × . | × |
| (student-id, class-id) | | |
| (student-id, attendance) | × | × |
| Student-id, class-id, attendance | | × |

superkey: set of columns that
identifies sow uniquely

candidate tey: Super key with minima set of columns

(empId, Dept.) (amail) (Frest-rame, trame) (Chame, depl.) cardidate legs SK? Political workers candidates C M

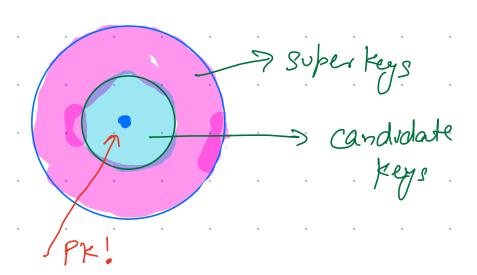


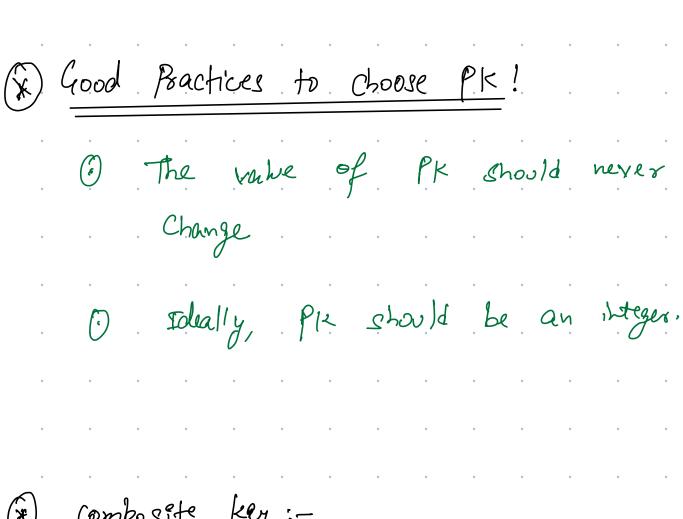
Why PK?

OPR stores the data in order of PX! (Sooted)

O outputs the data based on PK!

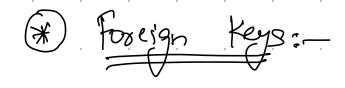
O creates an endles on PK! optimization





| * | Con | npo S | 3°te | ker | · .; | • | • | ٠ | ٠ | • |
|----------|-----|-------|------|------------|----------|----|-----|------|--------------|---|
| • | • | • | じ | Key | ו מתילם | mo | sl. | than | . 6 7 | R |
| • | • | • | • | <i>V</i> C | 1. ancha | • | • | 0 | • | • |

language that allows us to Query or Structured data



| first-name | last-name | PSP | batch | email | Phone |
|------------|-----------|--------|------------|-----------------|-------|
| Abhiehek | Kumais | . 80 | 1 | abcd@gnail.com | 9876 |
| Abhiehek | Veima | 70 | <u>D</u> _ | xyz @ gmail.com | 4321, |
| PankaJ. | Sharma | . 90 . | 1 | as @ ginail.com | |
| Rabul | Kuman | טסו | 2 | az @ gmail com | |
| | • | • • • | : |) · | |

| - Salares | | | | |
|-----------|---------|--|--|--|
| id | name | | | |
| . 1. | APR 22 | | | |
| 2 | JULY 23 | | | |
| | : | | | |

| . 7. | ک | · 4 · | 4. | <i></i> | . —. |
|------|---|-------|----|---------|------|
|------|---|-------|----|---------|------|

It allows us to have

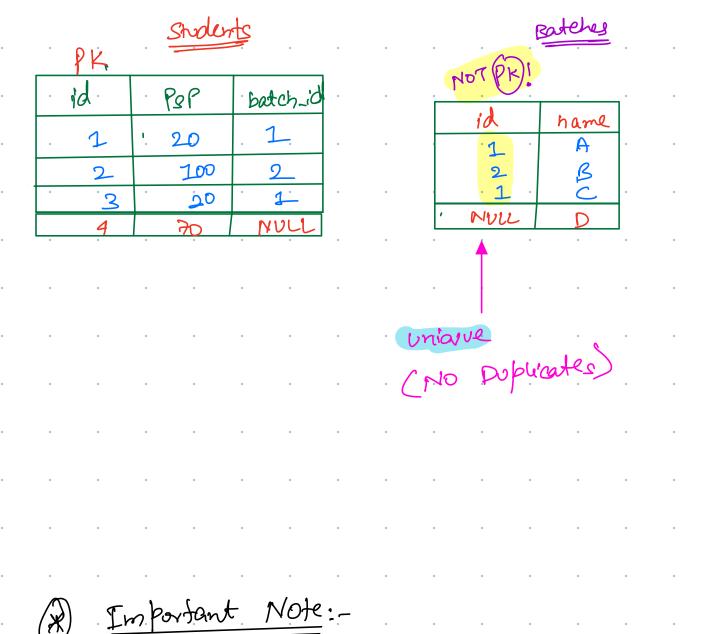
Constrainsts that allow one

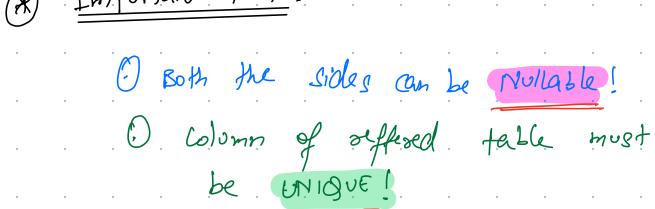
column of a fable to

be linked with one of

colomn of another table.

has no selation PK! . O. FK should be onlarce. · C It





| id | name | batch i'd |
|-----|----------|-----------|
| 1 | John | . 1. |
| . 2 | Vishod | 1 |
| . 3 | Knishner | . 2 |
| | | |

| • | |
|--------|--------|
| To id. | · name |
| . 1. | . A |
| . 2_ | ß. |
| . 3 | · . |
| | |

Os phaning!

Pater Integrity!

| (**) | Possible. | solutions: - |
|------|-----------|--------------|
| | | |

- 1 Throw Export
- () Set to NUL
- Delete corresponding sows of other table as well (Risky!)

| (x) Constainte on FX! | |
|-----------------------|-------------------------------------|
| ON DELETE | ON UPDATE |
| CASCAPE (RISKy!) | CASCADE (RISKY!) |
| SET MULL | O SET HULL O NO ACTION / Restard. |
| NO ACTION: | SET DEFAULT |
| SET DEFAULT | |

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