

#

Students.

St_id	email	phone	name	...

int

String

Super Key

St\_id

St\_id, name

email

phone

email, phone

phone, name

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Candidate Key

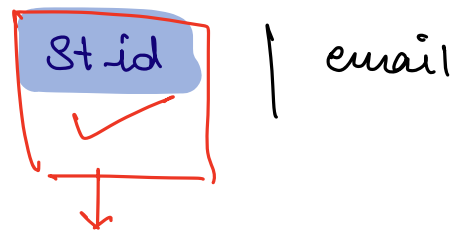
Minimal Super Key

St\_id

email

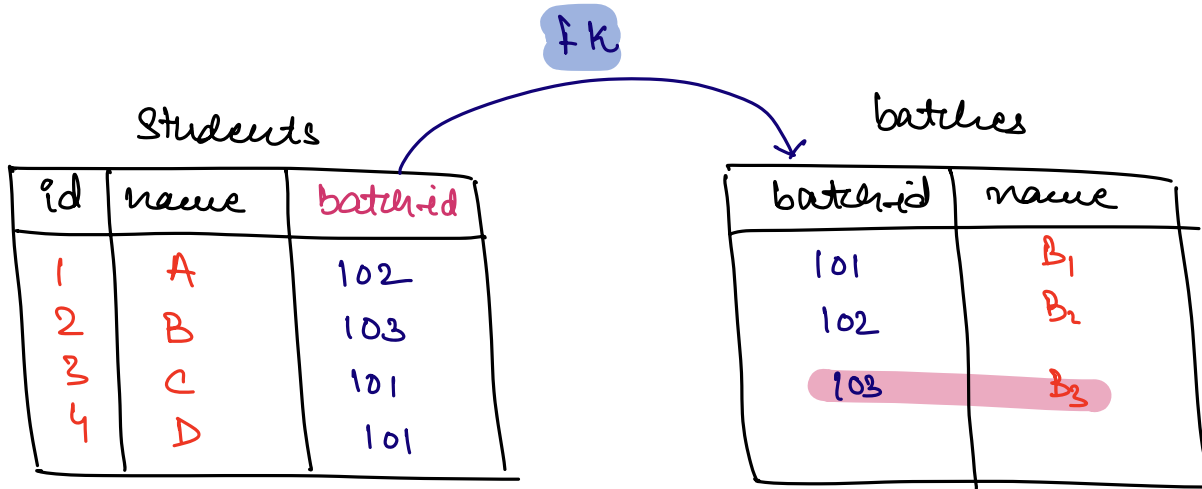
phone

email, phone X

Primary Key

Better choice for  
Primary Key

Foreign Key



⇒ If we try to delete the batch with id = 103, then :

I) Not Allowed

II) Delete all the students belongs to batch id = 103.

III) Mark the batch-id as NULL for all students belongs to batch id = 103.

IV) No action

→ CASCADE TYPES.

```
select * from film;  
-- select : Print
```

```
select "Hi Everyone, Good evening.";
```

```
select * from film where film_id = 10;
```

```
-- * -> all the columns  
select * from film where release_year = 2006;
```

```
select film_id, title from film where film_id = 20;
```

```
-- DISTINCT  
select DISTINCT rating from film;
```

```
select DISTINCT rating, release_year from film;
```

```
-- select rating, DISTINCT release_year from film; NOT A VALID QUERY
```

```
select * from film where rating = 'PG-13' and length < 100;
```

```
-- AND, OR, NOT  
-- != <> : Not equal to  
select * from film where rating <> 'PG-13';
```

```
select * from film where (rating = 'PG-13' OR release_year = 2006) and length > 100;
```

```
-- IN Operator
```

```
select * from film where rating = 'G' OR rating = 'PG' OR rating = 'PG-13';
```

```
select * from film where rating IN ('G', 'PG', 'PG-13');
```

```
select * from film where rating NOT IN ('G', 'PG', 'PG-13');
```

```
-- By default the table gets sorted based on PK of the table.  
-- If we want to sort the data in other format, we can use ORDER BY  
select * from film ORDER BY length;
```

```
select * from film where title = 'AGENT TRUMAN';
```

```
-- Select all the movies whose title starts with a/A  
-- LIKE Operator.
```

```
-- first character - A, after A, any character can come any number of times.  
-- % : Any character any number of times.  
-- _ : Only single character.
```

-- A% : starts with A, and after A any character can come any number of times.

select \* from film where title LIKE 'A%';

-- Select all the movies whose title ends with k

select \* from film where title LIKE '%K';

-- Select all the movies whose title containns 'TH'

select \* from film where title LIKE '%TH%';

-- Select all the movies whose title starts with BU

select \* from film where title LIKE 'BU%';

-- Select all the movies whose title starts with BU and contains SO

select \* from film where title LIKE 'BU%SO%';

-- Select all the movies whose title starts with DE and last second character A

select \* from film where title LIKE 'DE%A\_';

-- select the films whose release year is from 2006 to 2010

select \* from film where release\_year >= 2006 and release\_year <= 2010;

-- BETWEEN

-- age >= 18 and age <= 25 -> age between (18, 25)

-- BETWEEN a and b : >= a and <= b

select \* from film where release\_year BETWEEN 2006 AND 2010;

-- Select all the movies whose title starts with DE and last fourth character R

select \* from film where title LIKE 'DE%R\_\_\_';

-- INSERT INTO film(...) VALUES

-- (.....)