IN, NOT IN, ANY & ALL in SQL

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SQL (Queries & Statements)

(IN, NOT IN, ANY & ALL)

Consider a table :- Student

Student

Roll	Name	Father's name	Marks	City	Branch
101	Ajay Singh	Vinay	70	Lucknow	CS
102	Vinod Yadav	Vijay	80	Kanpur	EC
103	Vijay Kumar	Akash	85	Lucknow	CS
104	Vikas Singh	Akhil	60	Lucknow	CS
105	Anil Verma	Anurag	75	Varanasi	ME
106	Dev. Singh	Anand	90	Kanpur	EC

Q. Find the detail of student who belongs to city Lucknow.

```
Select * from Student where City = 'Lucknow';
```

Q. Find the detail of student who belongs to city Lucknow or Kanpur.

```
Select * from Student where city = "Lucknow"
    or city = "Kanpur";
```

Note :- if there are multiple city from which we have to select the detail then IN will be used.

IN operator:- Select on the basis of any value in the list. (Multiple OR condition)

```
Select * from Student where
        City in ('Lucknow', 'Kanpur');
```

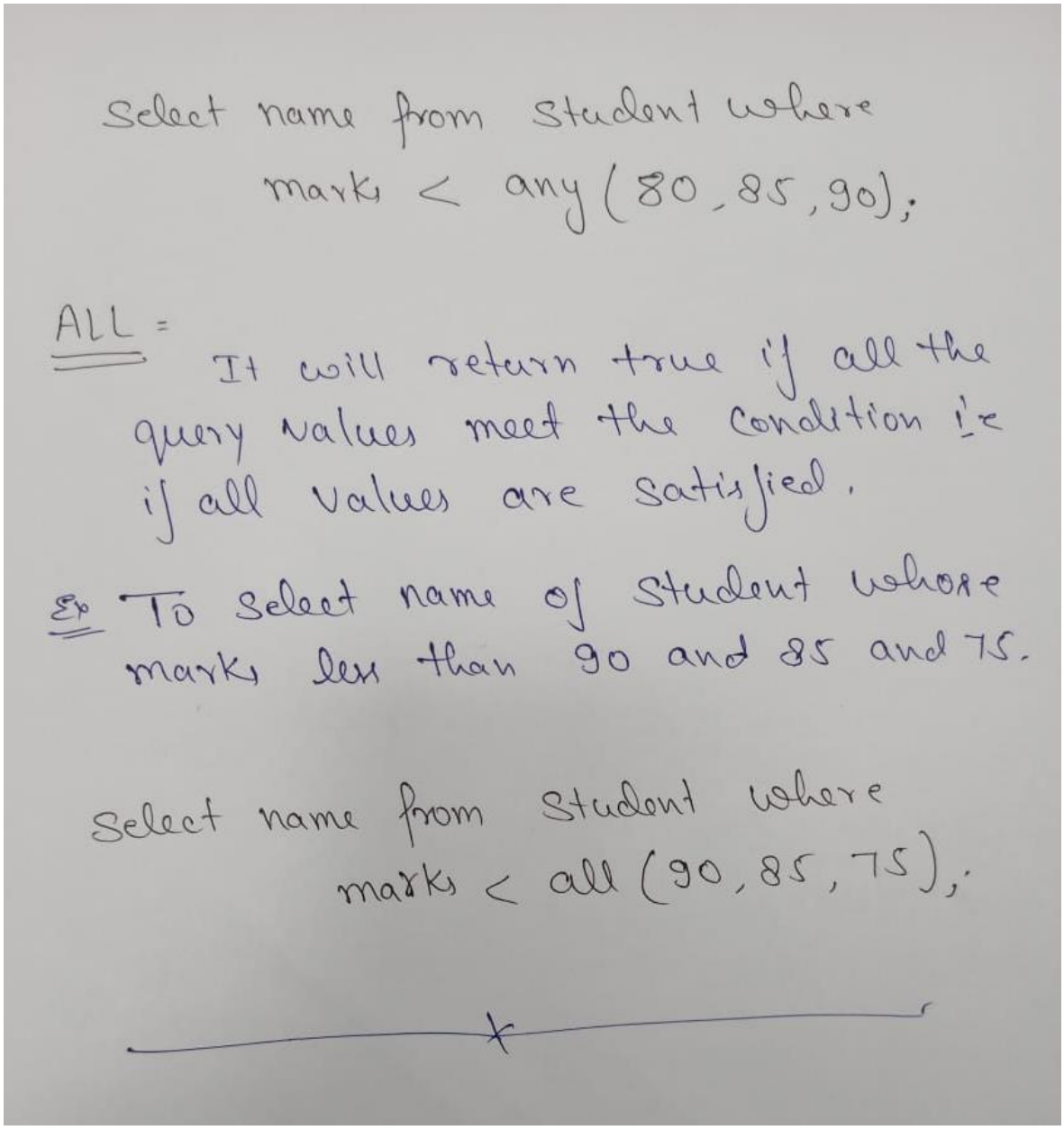
NOT IN:- It will retrieve values which is not equal to any value in the list.

Ex Select name of student whose marks is not equal to 70, 75, 90.

⇒
```
Select Name from Student where
        marks not in (70, 75, 90);
```

ANY:- It will return true if any of the query values meet or any satisfies the Condition.

Ex To select Name of Student whose marks is less than 80, 85 or 90.



References:

- Korth, Silbertz, Sudarshan," Database Concepts", McGraw Hill.
- Date C J, " An Introduction to Database Systems", Addision Wesley.
- Bipin C. Desai, " An Introduction to Database Systems", Gagotia Publications.
- P.K. Yadav,"Database Management System", kataria & sons.