**SQL\_SESSION\_7**

* SELECT DISTINCT source\_of\_joining FROM students ORDER BY enrollment\_date LIMIT 3; // This will not work
* DISTINCT & ORDER BY will never work if they are present in the same query.
* SELECT source\_of\_joining FROM students :
* Order of execution of above query :

FROM (Loading of table)

SELECT (Projecting source\_of\_joining)

* SELECT source\_of\_joining, enrollment\_date FROM students :
* Order of execution of above query :

FROM (Loading of table)

SELECT (Projecting source\_of\_joining, enrollment\_date)

* SELECT source\_of\_joining, enrollment\_date FROM students ORDER BY enrollment\_date:
* Order of execution of above query :

FROM (Loading of table)

SELECT \* FROM students;

SELECT (Projecting source\_of\_joining, enrollment\_date)

SELECT source\_of\_joining, enrollment\_date FROM students;

ORDER BY ( Based on enrollment\_date the data is ordered)

SELECT source\_of\_joining, enrollment\_date FROM students ORDER BY enrollment\_date;

* SELECT source\_of\_joining FROM students ORDER BY enrollment\_date:
* Order of execution of above query :

FROM (Loading of table)

SELECT \* FROM students;

SELECT (Projecting source\_of\_joining, enrollment\_date) : It will consider enrollment\_date for projection because of order by that we will do later.

SELECT source\_of\_joining, enrollment\_date FROM students;

ORDER BY ( Based on enrollment\_date the data is ordered)

SELECT source\_of\_joining FROM students ORDER BY enrollment\_date; - Here it will discard enrollment\_date because we didn’t need it as per the query.

* SELECT DISTINCT source\_of\_joining FROM students ORDER BY enrollment\_date LIMIT 3; **// This will not work**
* Let’s see it’s order of execution of failed query.

FROM (Loading of table)

SELECT \* FROM students;

SELECT (Projecting source\_of\_joining, enrollment\_date) : It will consider enrollment\_date for projection because of order by that we will do later.

SELECT source\_of\_joining, enrollment\_date FROM students;

DISTINCT

SELECT DISTINCT source\_of\_joining, enrollment\_date FROM students; - Here this query is logically wrong because it will apply DISTINCT on both the columns which is wrong that’s why SQL gives error.

ORDER BY ( Based on enrollment\_date the data is ordered)

SELECT source\_of\_joining FROM students ORDER BY enrollment\_date; - Here it will discard enrollment\_date because we didn’t need it as per the query.