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RTMNU External Practical Exam Winter-20

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15	10	25

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Aim :- To use Order By, Group By & Having Clause in a Database.

Theory :-

• Sorting of Oracle table data :-

The order of rows returned in a query result is undefined. Oracle Server may not fetch row in the same order for the same query twice. To prevent this from happening the 'Order by' clause is used.

• Grouping rows in a table :-

The rows of data in a Oracle table can be divided into groups by using the 'Group By' clause.

• Having Clause :- The Having Clause can be used to restrict groups from being displayed.

★ Order by :-

Syntax :-

Select <entity> from <table-name>
[WHERE conditions]
[order by ? column / expr ? [asc / desc]] ;

Where :- asc - Order the rows in ascending order
desc - Order the rows in descending order.

★ Group by Clause :-

Syntax :- Select column, group-function from
<table-name> [where condition] [group by
group-by-expression] [order-by column] ;

Where, group-by expression specifies columns whose values determines the basis for grouping rows.

→ The group-by column does not have to be in select list.

eg:- Select avg(salary) from emp group by dept no ;

★ Having clause :-

Syntax :- Select column-name group-function from <table>
[group by group-by-expression]
[having group-condition]
[order by column]

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where,

group condition restricts the group of rows returned to those groups for which the specified condition is TRUE.

We use the 'Having' clause to specify which group are displayed.

eg: `Select deptno, avg(salary) from emp group by deptno having max(salary) > 10000;`

Output <mysql> `Select * from Student Order by ID Desc`

Name	Sem	ID	Dept
Abhishek	5	781	CSE
Paratik	5	782	CSE
Suyash	5	783	CSE
Takshay	5	784	CSE

<mysql> `Select * from Employee Group by DeptID;`

Employee ID	E-name	DeptID	Salary
1001	John	2	4000
1002	James	1	2500
1003	David	2	5000
1004	Mark	2	3000
1005	Steve	3	3500

(4)

Conclusion :- Hence, we have studied & understood then Group By, & Order By & Having Clauses

Declaration

I declare that all questions I attempted are done in fair & honest means. I am not involved in any kind of malpractice or cheating while attempting my paper & will answer all questions with sincerity, integrity. I am aware of the fact that if I am involved in any malpractice or cheating I shall be penalized as per rules of examination.

Yours Sincerely

Abhishek
Abhishek Yadav
Name & Sign of Student