**13-03-2025**

**Alter command**

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-> alter is one of the DDL command

when we want to modify the database object's structure, we can use "alter command".

when we need alter?

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1) to add the new column into the existing table, we can use "alter". (alter-add)

Syntax:

alter table <table-name> add <column-name> <datatype>;

-> Here, the above command can add only one new column to the existing table.

-> To add more than one column into the existing table, we can use the below command:

Syntax:

alter table <table-name> add (column-name1 datatype, column-name2 datatype,...);

Note:

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-> to conform that whether the table has created with the given data or not, we can use "describe command".

Syntax:

describe <table-name>;

-> and also we can the below command:

syntax:

desc <table-name>;

2) alter command can also use to remove columns from the existing table. (alter-drop)

Syntax:

alter table <table-name> drop column column-name;

-> using the alter command, we can remove only one column at a time.

3) alter command can also use to rename: (alter-rename)

i) column

ii) table

i) rename the column:

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Syntax:

alter table <table-name> rename column <old-name> to <new-name>;

-> we can able to rename the column of the table only one at a time.

ii) rename the table:

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Syntax:

alter table <table-name> rename to <new-table-name>;

4) we can use the alter command to change the datatype of the column.(alter-modify)

Syntax:

alter table <table-name> modify <column-name> <new-datatype/data-size>;

-> the above syntax can modify only one datatype of the column at a time.

-> To modify the datatype of more than one column:

Syntax:

alter table <table-name> modify (col1 type, col2 type, col3 type,...);

Query:

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1) Writ a query to create a table with following fields:

i) employeeId

ii) employeeName

iii) age

iv) gender

and give the name to the table as "EmployeeTable"

2) add new columns into the table as below:

i) designation

ii) salary number(6,2)

iii) location

3) rename the filed 'employeeName' as 'name' and 'employeeId' as 'Id'

4) finally insert the data into the table according to the table fields.