

MySQL

Practice – 8

Overview

In this practice you will create new tables by using CREATE TABLE statement. Confirm that the new tables are added to the database. Modify column definitions of a table, besides renaming the table and removing it.

- *Creating a new table by using the CREATE TABLE AS syntax*
 - *Modifying column definitions*
 - *Verifying that the tables exist*
 - *Adding comments to tables*
 - *Dropping tables*
 - *Altering tables*
1. Create the **EMPLOYEE** table based on the structure of the **MY_EMPLOYEE** table created in the previous practice session. Include only the **ID**, **FIRST_NAME** and the **SALARY** columns. Name the column in your new table as **EMP_ID**, **NAME** and **BASIC_SAL** respectively.
 2. Look into the description of the new table i.e. **EMPLOYEE** as well as the rows. Record your observation with respect to the **PRIMARY KEY** constraint and the **AUTO_INCREMENT** clause in the new table.
 3. Now, since the name column has not more than five characters in it, modify the column to **VARCHAR(5)**.
 4. Set the basic salary to **NULL** for all the row where the employee id is even in the **EMPLOYEE** table.
 5. Modify the table column **BASIC_SAL**, name it as **SALARY** with attribute **BIGINT** and **NOT NULL** clause. Record your observation.
 6. Confirm your modification by checking the description.
 7. Re-execute the statement of question 5 without the **NOT NULL** clause now. Confirm the modification by checking the description.
 8. Add an addition column by name **EMAIL_ID** with the attribute **VARCHAR(20)** **NOT NULL**. List the rows now and record your observation.
 9. Try inserting a new row without the **EMAIL_ID**. Record your observation.

10. Drop the **EMAIL_ID** column from the **EMPLOYEE** table. Confirm that the column is dropped by checking the description.
11. Rename the **EMPLOYEE** table as **MY_EMP2** table. Confirm that the table has been renamed.
12. Drop the **MY_EMP2** table. Confirm that the table has been dropped from the database.
13. Try dropping the **MY_EMP2** table again. Record your observation. Recall how you can avoid errors by using the **IF EXISTS** clause.