

# Database Management System Lab (Section – J) – Fall 2024

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**You can learn about DDL to understand the commands.**

There are some popular free resources to help you in this regard.

1. GeeksForGeesek DDL: <https://www.geeksforgeeks.org/sql-ddl-dql-dml-dcl-tcl-commands/#ddl-data-definition-language>
2. Onecompiler: <https://onecompiler.com/tutorials/mysql/commands/ddl-commands>
3. Anisul Islam: <https://www.youtube.com/playlist?list=PLgH5QX0i9K3qLcx9DvVDWmNJ7riPvxzCD>
4. ApnaCollege: <https://www.youtube.com/watch?v=hlGoQC332VM>
5. I used to create content, but didn't continue afterwards. However, if you want to have an idea about which pattern I used earlier to teach others and if it helps you, then: <https://www.youtube.com/playlist?list=PL7ZCWbO2Db14k0NaOme7aDx5hOebqo47S>
6. A lot of content is available in the internet, and YouTube as well for free!

Write all the SQL queries for the following scenario

1. Create a database named “assignmentdatabase”
2. Ops! We gave a long name in the database. Let’s delete the earlier database, and create a new database for now with the name “assignmentdb”
3. Create a table named “teachertb” which includes id, name, department, room\_no, date\_of\_birth, age. Use appropriate data types.
4. Add 2 new columns into “teachertb”, and they are joining\_date, total\_presence\_day.
5. Increase the VARCHAR character limit of the name column/attribute for “teachertb” table.
6. Create a table named “studenttb” which includes id, name, department, cgpa, date\_of\_birth, credits\_completed, current\_trimester. Use appropriate data types.
7. Ops! We don’t want to add the age related information in the “teachertb” anymore as we can do that directly from date\_of\_birth. Remove the column.
8. The column date\_of\_birth seems pretty big right now. Rename that to dob for both tables.
9. Insert a row in each tables.
10. Insert 25 rows in each tables.
11. Create a new table named “temporarytb” which includes tempdata\_id, tempdate\_content.
12. Insert 5 rows into “temporarytb” table.
13. This is a temporary table and I don’t need anymore. So delete every records from “temporarytb” table but make sure to keep the table structure intact. (*hint: use truncate*)
14. Make sure to add comments. There are 3 types of comments. Use the three of them by creating 3 different comments. Write the comment type name inside your comments.
15. Now, delete the entire “temporarytb” table.