**📝 25 Practice Questions on DDL in MySQL**

**🔹 Section 1: CREATE DATABASE & TABLE**

1. Create a database named company\_db.
2. Inside company\_db, create a table employees with columns:
   * emp\_id (INT, primary key, auto-increment)
   * first\_name (VARCHAR(50))
   * last\_name (VARCHAR(50))
   * salary (DECIMAL(10,2))
   * hire\_date (DATE).
3. Create another table departments with columns:
   * dept\_id (INT, primary key, auto-increment)
   * dept\_name (VARCHAR(50), must be unique).
4. Create a database named school\_db. Inside it, create a students table with:
   * student\_id (INT, primary key, auto-increment)
   * name (VARCHAR(50), not null)
   * age (INT)
   * class (VARCHAR(20))
   * admission\_date (DATE).
5. Create a table courses with course\_id, course\_name, credits, instructor\_name.

**🔹 Section 2: DROP DATABASE & TABLE**

1. Drop the database school\_db.
2. Drop the table courses from company\_db.
3. Write a query to delete the departments table.
4. Delete the entire company\_db database (be careful ⚠️).

**🔹 Section 3: ALTER TABLE – ADD COLUMN**

1. Add a new column email (VARCHAR(100)) to the employees table.
2. Add a column phone\_number (VARCHAR(15)) to the employees table.
3. Add a column location (VARCHAR(50)) to the departments table.

**🔹 Section 4: ALTER TABLE – DROP COLUMN**

1. Remove the phone\_number column from the employees table.
2. Drop the location column from the departments table.
3. Drop the class column from the students table.

**🔹 Section 5: ALTER TABLE – MODIFY COLUMN**

1. Change the datatype of salary in employees to DECIMAL(12,2).
2. Modify the column age in students to make it NOT NULL.
3. Change the length of dept\_name in departments from 50 characters to 100 characters.

**🔹 Section 6: ALTER TABLE – CHANGE COLUMN NAME**

1. Rename the column class in students to grade with datatype VARCHAR(20).
2. Change the column name instructor\_name in courses table to teacher\_name.
3. Rename the column hire\_date in employees to joining\_date.

**🔹 Section 7: TRUNCATE TABLE**

1. Truncate the employees table (remove all data but keep structure).
2. Truncate the students table.

**🔹 Section 8: RENAME TABLE**

1. Rename the employees table to staff.
2. Rename the students table to learners.

✅ These 25 questions progress from **simple database/table creation** to **complex alterations and**