

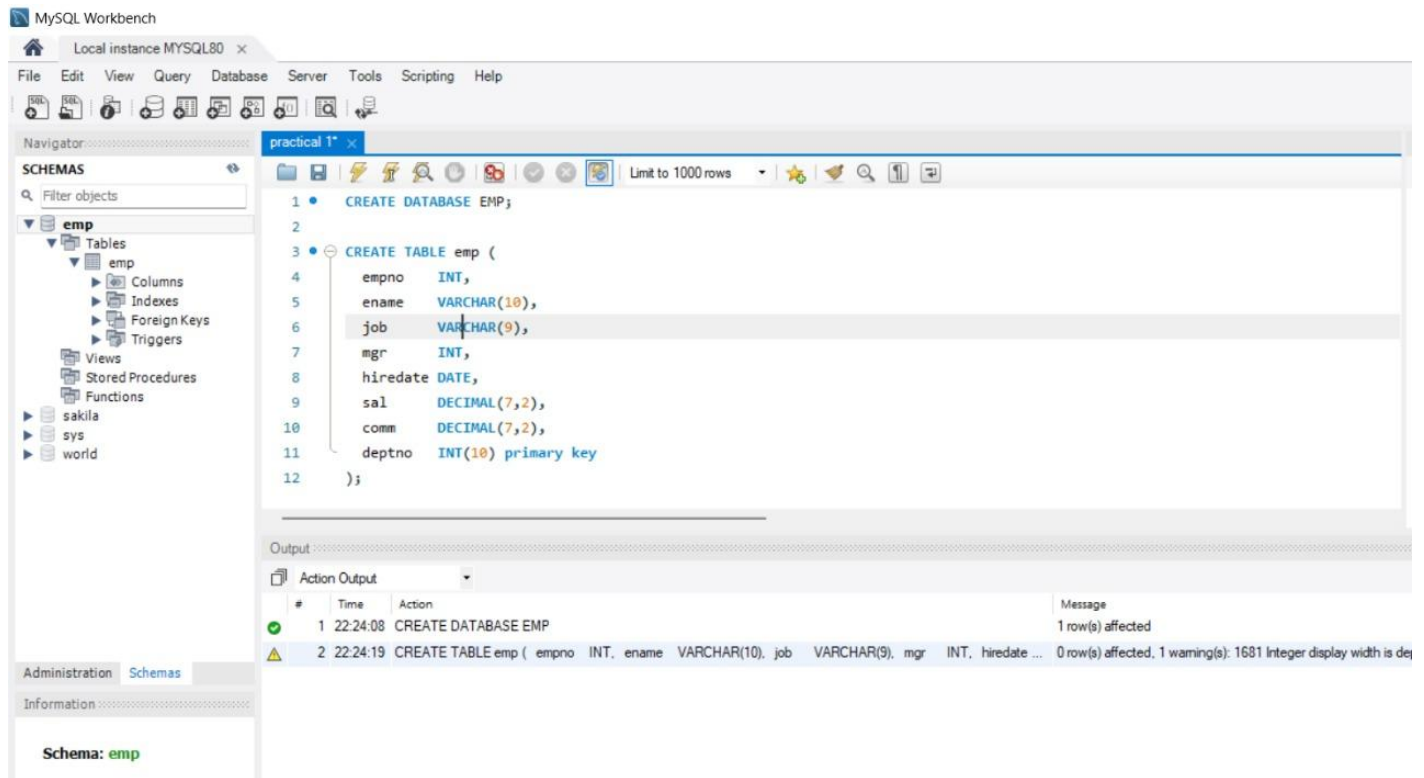
# DBMS Practical No.: 03

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PR 3 \* Execute DDL commands to manage Database using SQL

## 1. CREATE Command: Build a Table

**Purpose:** Builds a new table.



**Explanation:** This command creates a new table called emp

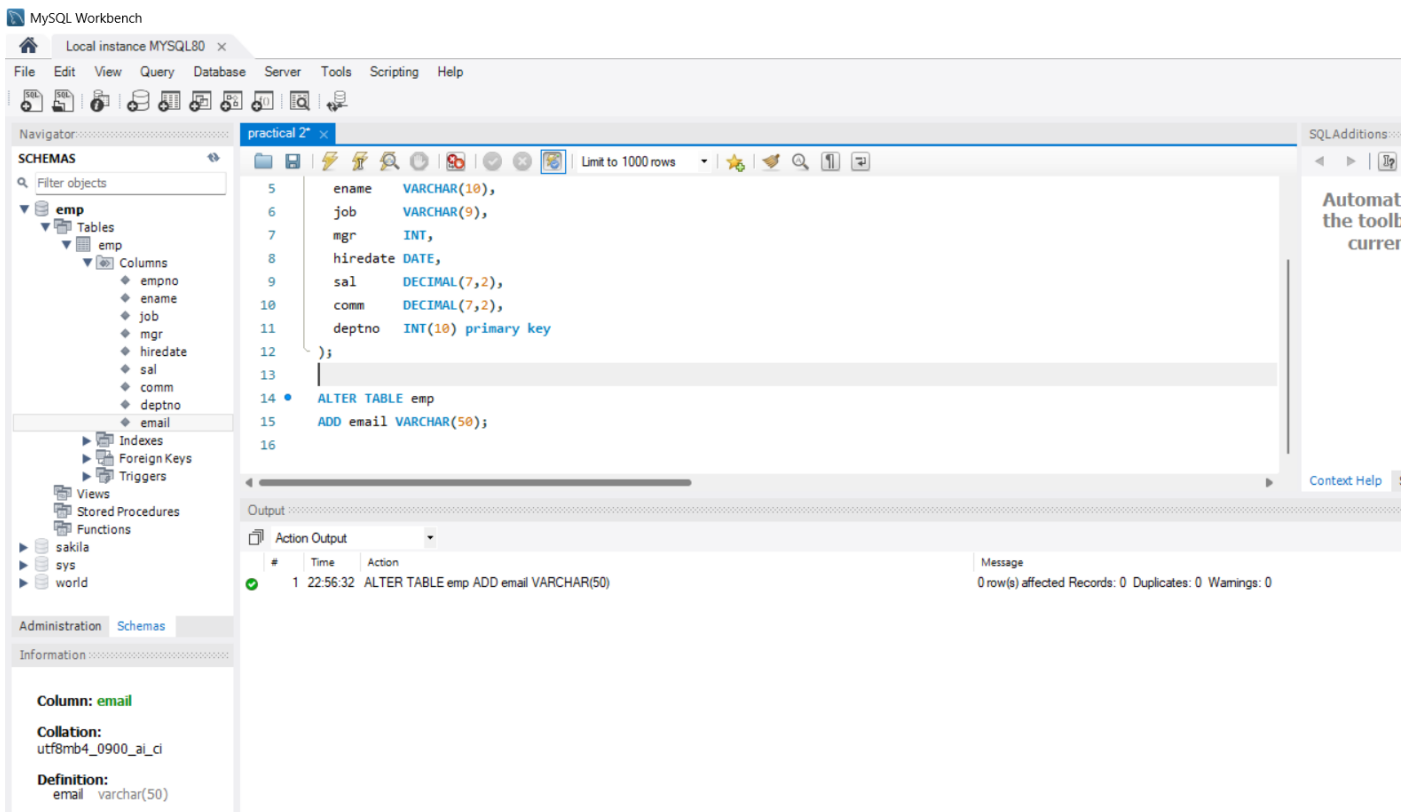
## 2. ALTER Command: Modify the Table

**Add a column:**

ALTER TABLE emp

ADD email VARCHAR(50);

**Purpose:** Change an existing table's structure—add, remove, or modify columns.

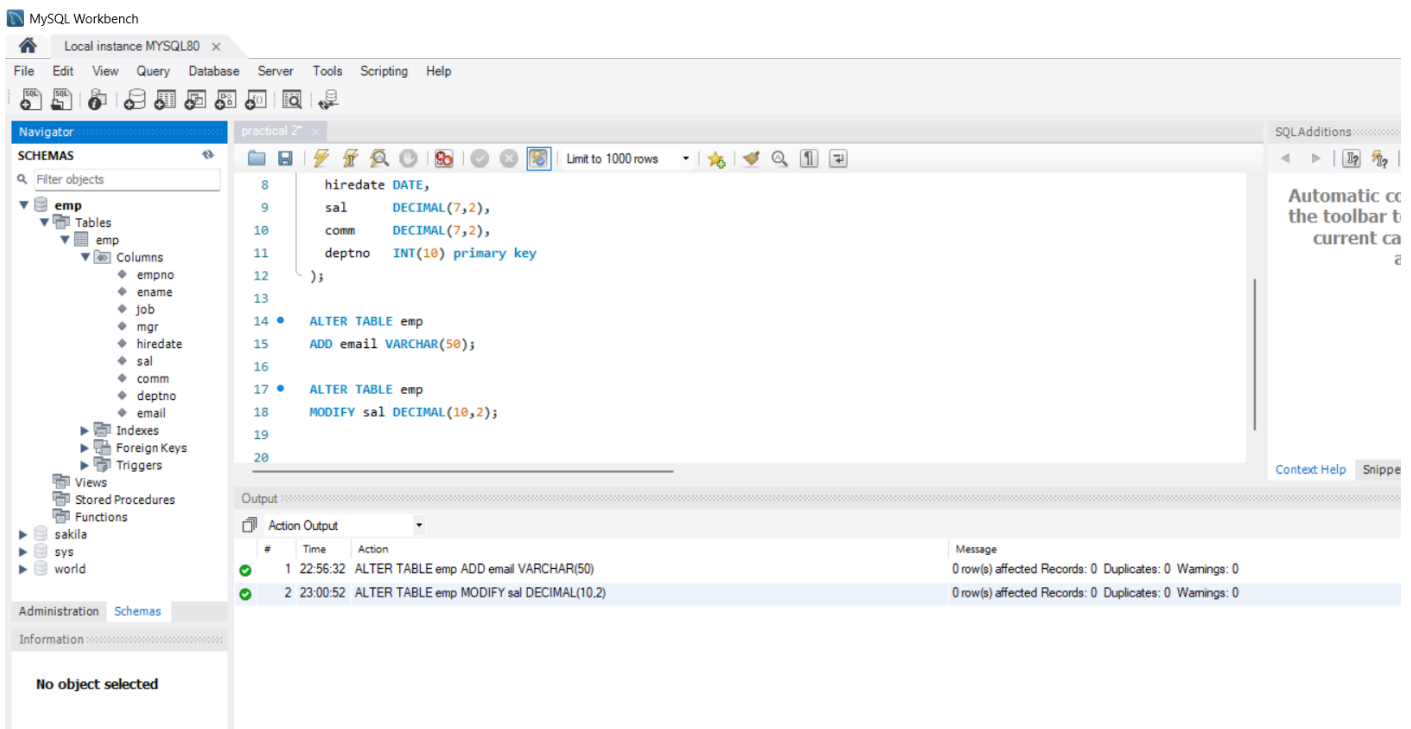


*Explanation: Adds a new column 'email' so every employee can have an email address*

### **Modify a column:**

**ALTER TABLE emp**

**MODIFY sal DECIMAL(10,2);**



*Explanation: Changes 'sal' column to allow more digits*

## Drop a column:

*ALTER TABLE emp*

*DROP COLUMN comm;*

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with 'emp' selected. The main editor window contains the following SQL code:

```
11 deptno INT(10) primary key
12 );
13
14 ALTER TABLE emp
15 ADD email VARCHAR(50);
16
17 ALTER TABLE emp
18 MODIFY sal DECIMAL(10,2);
19
20 ALTER TABLE emp
21 DROP COLUMN comm;
22
23
```

The 'Output' pane at the bottom shows the execution results:

#	Time	Action	Message
1	22:56:32	ALTER TABLE emp ADD email VARCHAR(50)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
2	23:00:52	ALTER TABLE emp MODIFY sal DECIMAL(10,2)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
3	23:05:20	ALTER TABLE emp DROP COLUMN comm	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0

## 3. DROP Command: Delete a Table

*DROP TABLE emp;*

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with 'emp' selected. The main editor window contains the following SQL code:

```
13
14 ALTER TABLE emp
15 ADD email VARCHAR(50);
16
17 ALTER TABLE emp
18 MODIFY sal DECIMAL(10,2);
19
20 ALTER TABLE emp
21 DROP COLUMN comm;
22
23 DROP TABLE emp;
24
25
```

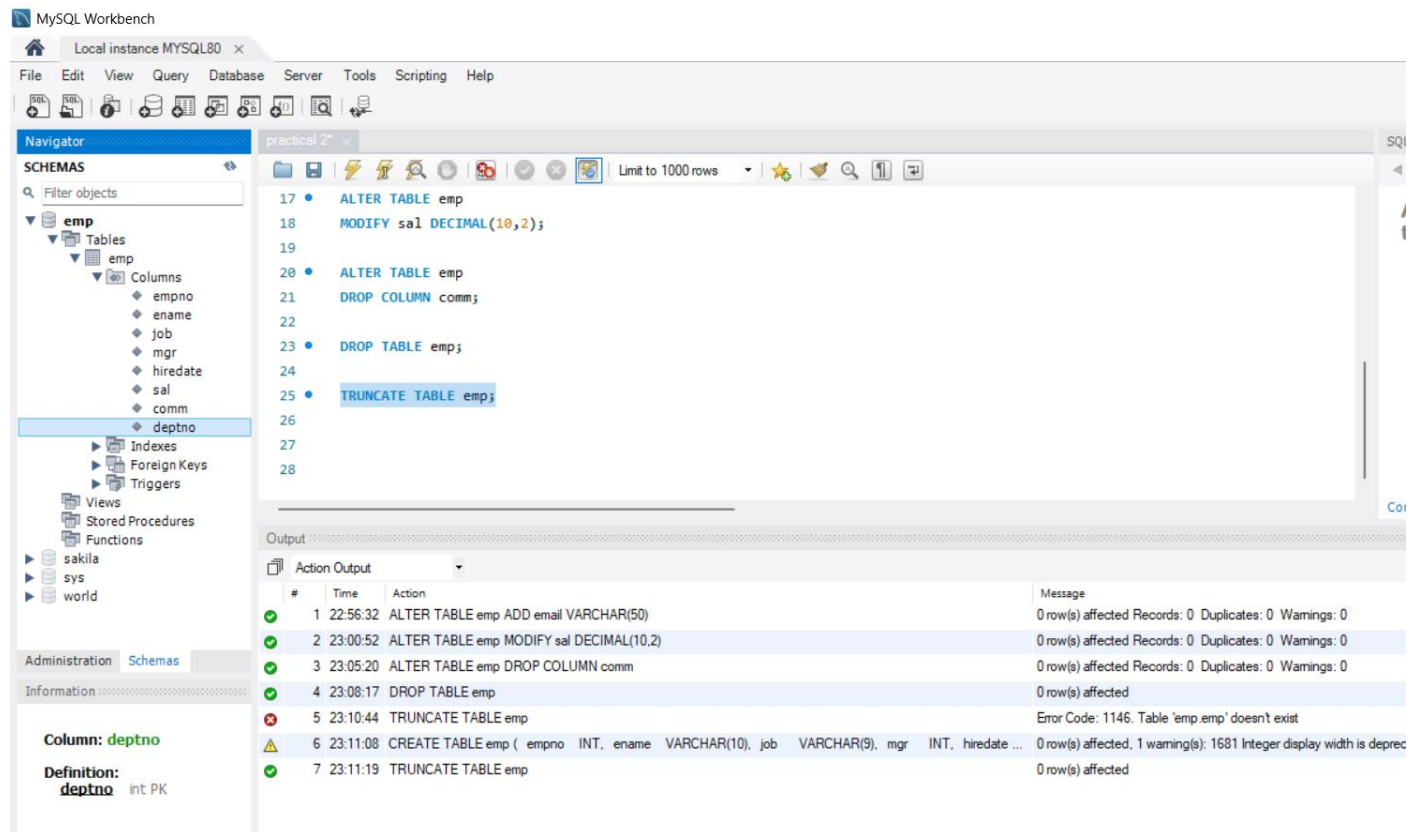
The 'Output' pane at the bottom shows the execution results:

#	Time	Action	Message
1	22:56:32	ALTER TABLE emp ADD email VARCHAR(50)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
2	23:00:52	ALTER TABLE emp MODIFY sal DECIMAL(10,2)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
3	23:05:20	ALTER TABLE emp DROP COLUMN comm	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
4	23:08:17	DROP TABLE emp	0 row(s) affected

*Explanation: Deletes the table completely*

#### 4. TRUNCATE Command: Empty a Table

**TRUNCATE TABLE emp;**



The screenshot shows the MySQL Workbench interface. On the left, the 'Navigator' pane displays the 'emp' table structure with columns: empno, ename, job, mgr, hiredate, sal, comm, and deptno. The 'deptno' column is highlighted as the primary key. The main editor shows a series of SQL queries:

```
17 ALTER TABLE emp
18 MODIFY sal DECIMAL(10,2);
19
20 ALTER TABLE emp
21 DROP COLUMN comm;
22
23 DROP TABLE emp;
24
25 TRUNCATE TABLE emp;
26
27
28
```

The 'Output' pane at the bottom shows the execution results of these queries:

#	Time	Action	Message
1	22:56:32	ALTER TABLE emp ADD email VARCHAR(50)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
2	23:00:52	ALTER TABLE emp MODIFY sal DECIMAL(10,2)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
3	23:05:20	ALTER TABLE emp DROP COLUMN comm	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
4	23:08:17	DROP TABLE emp	0 row(s) affected
5	23:10:44	TRUNCATE TABLE emp	Error Code: 1146. Table 'emp.emp' doesn't exist
6	23:11:08	CREATE TABLE emp ( empno INT, ename VARCHAR(10), job VARCHAR(9), mgr INT, hiredate ...	0 row(s) affected, 1 warning(s): 1681 Integer display width is deprecated
7	23:11:19	TRUNCATE TABLE emp	0 row(s) affected

*Explanation: Removes all the rows/data inside the table, but keeps its structure*

#### 5. RENAME Command: Change the Table's Name

*RENAME TABLE emp TO employee;*

MySQL Workbench

Local instance MYSQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

emp

Tables

employee

Columns

empno

ename

job

mgr

hiredate

sal

comm

deptno

Indexes

Foreign Keys

Triggers

Views

Stored Procedures

Functions

sakila

sys

world

Administration Schemas

Information

Column: comm

Definition: comm decimal(7,2)

practical 2

Limit to 1000 rows

```
17 • ALTER TABLE emp
18   MODIFY sal DECIMAL(10,2);
19
20 • ALTER TABLE emp
21   DROP COLUMN comm;
22
23 • DROP TABLE emp;
24
25 • TRUNCATE TABLE emp;
26
27 • RENAME TABLE emp TO employee;
28
29
```

Output

Action Output

#	Time	Action	Message
✓ 1	22:56:32	ALTER TABLE emp ADD email VARCHAR(50)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
✓ 2	23:00:52	ALTER TABLE emp MODIFY sal DECIMAL(10,2)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
✓ 3	23:05:20	ALTER TABLE emp DROP COLUMN comm	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
✓ 4	23:08:17	DROP TABLE emp	0 row(s) affected
✗ 5	23:10:44	TRUNCATE TABLE emp	Error Code: 1146. Table 'emp.emp' doesn't exist
⚠ 6	23:11:08	CREATE TABLE emp ( empno INT, ename VARCHAR(10), job VARCHAR(9), mgr INT, hiredate ...	0 row(s) affected, 1 warning(s): 1681 Integer display width is depre
✓ 7	23:11:19	TRUNCATE TABLE emp	0 row(s) affected
✓ 8	23:12:53	RENAME TABLE emp TO employee	0 row(s) affected