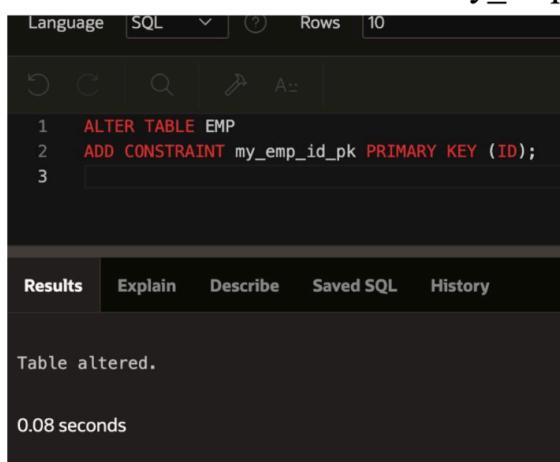


# **DBMS EX - 3**

Name	Manjusri.N
Roll No	241801151
Department	AI & DS

1. Add a table-level PRIMARY KEY constraint to the EMP table on the ID column. The constraint should be named at creation. Name the constraint my\_emp\_id\_pk.

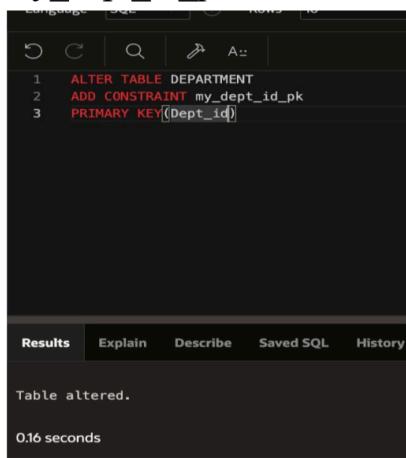


The screenshot shows a MySQL Workbench interface with the following details:

- Language:** SQL
- Rows:** 10
- SQL Editor Content:**

```
1 ALTER TABLE EMP
2 ADD CONSTRAINT my_emp_id_pk PRIMARY KEY (ID);
3
```
- Results Tab:** The tab is selected and displays the message "Table altered."
- Timing:** 0.08 seconds

2. Create a PRIMARY KEY constraint to the DEPT table using the ID column. The constraint should be named at creation. Name the constraint my\_dept\_id\_pk



A screenshot of a MySQL command-line interface. The SQL query entered is:

```
1 ALTER TABLE DEPARTMENT
2 ADD CONSTRAINT my_dept_id_pk
3 PRIMARY KEY(Dept_id)
```

The results section shows the output:

```
Table altered.
```

Execution time:

```
0.16 seconds
```

3. Add a column DEPT\_ID to the EMP table. Add a foreign key reference on the EMP table that ensures that the employee is not assigned to nonexistent department. Name the constraint my\_emp\_dept\_id\_fk.

This screenshot shows the MySQL Workbench interface. The SQL tab contains the following code:

```
1 ALTER TABLE EMP ADD DEPT_ID INT;
```

The results pane below shows the output:

Table altered.  
0.06 seconds

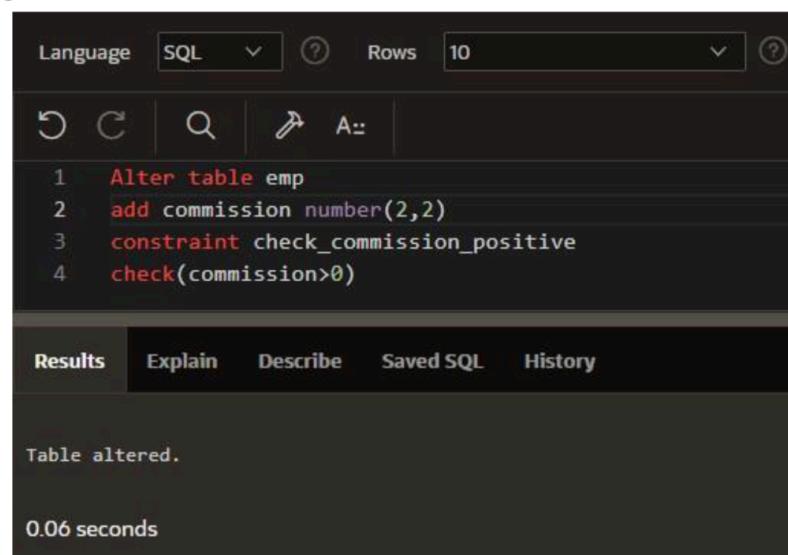
This screenshot shows the MySQL Workbench interface. The SQL tab contains the following code:

```
1 ALTER TABLE EMP ADD CONSTRAINT My_emp_dept_id_fk
2 FOREIGN KEY(DEPT_ID)REFERENCES DEPARTMENT(Dept_id)
```

The results pane below shows the output:

Table altered.  
0.08 seconds

4. Modify the EMP table. Add a COMMISSION column of NUMBER data type, precision 2, scale 2. Add a constraint to the commission column that ensures that a commission value is greater than zero.



The screenshot shows a SQL editor interface with the following details:

- Language: SQL
- Rows: 10
- SQL code entered:

```
1 Alter table emp
2 add commission number(2,2)
3 constraint check_commission_positive
4 check(commission>0)
```

- Toolbar icons: Undo, Redo, Search, Insert, and Sort.
- Bottom navigation bar: Results (selected), Explain, Describe, Saved SQL, History.
- Output area:
  - Message: Table altered.
  - Time: 0.06 seconds