

DBMS EX - 3

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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 SQL query editor interface. At the top, there are buttons for Language (set to SQL), Rows (set to 10), and various icons. Below the toolbar, the SQL command is entered:

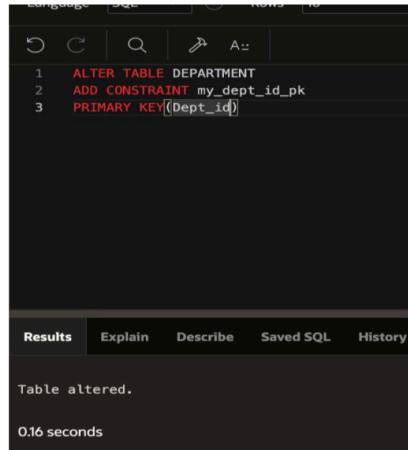
```
1  ALTER TABLE EMP
2  ADD CONSTRAINT my_emp_id_pk PRIMARY KEY (ID);
3
```

Below the command, there are tabs for Results, Explain, Describe, Saved SQL, and History. The Results tab is selected. The output shows the message "Table altered." and a execution time of "0.08 seconds".

Results	Explain	Describe	Saved SQL	History
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Table altered.
0.08 seconds

2. Create a PRIMARY KEY constraint to the DEPT table using the ID colum. 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.

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

```
1 ALTER TABLE EMP ADD DEPT_ID INT;
2
```

The results pane shows the output:

```
Table altered.
```

The execution time is listed as 0.06 seconds.

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

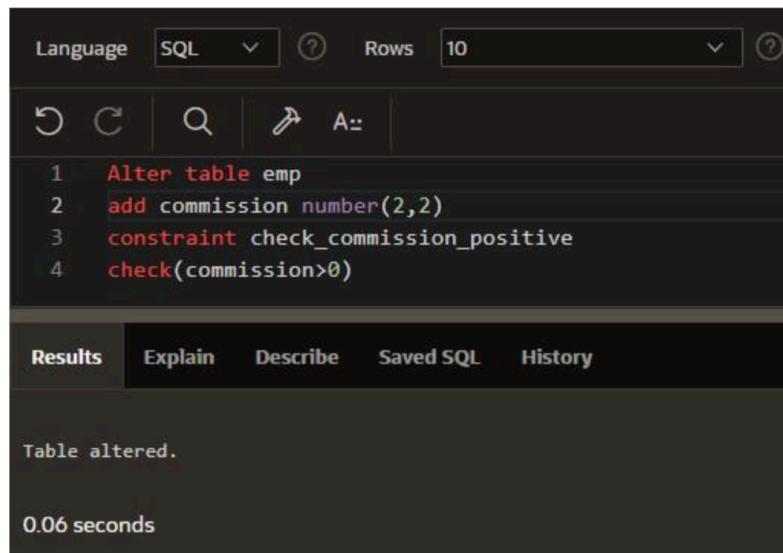
```
1 ALTER TABLE EMP ADD CONSTRAINT My_emp_dept_id_fk
2 FOREIGN KEY(DEPT_ID)REFERENCES DEPARTMENT(Dept_id)
```

The results pane shows the output:

```
Table altered.
```

The execution time is listed as 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 query editor interface. At the top, there are dropdown menus for 'Language' set to 'SQL', 'Rows' set to '10', and several help icons. Below the header are standard database navigation icons: a refresh symbol, a circular arrow, a magnifying glass for search, a pencil for edit, and a sorting icon. The main area contains a code editor with the following SQL script:

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

Below the code editor is a navigation bar with tabs: 'Results' (which is selected), 'Explain', 'Describe', 'Saved SQL', and 'History'. The results pane displays the message 'Table altered.' and a performance metric of '0.06 seconds'.