

Exercise 3

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|------------|---------------|
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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.

Language SQL Rows 10

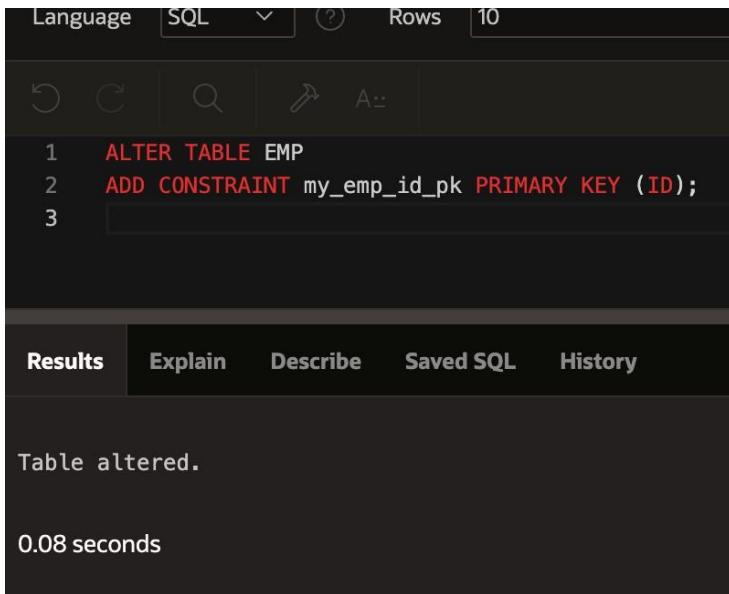
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```
1 ALTER TABLE EMP
2 ADD CONSTRAINT my_emp_id_pk PRIMARY KEY (ID);
3
```

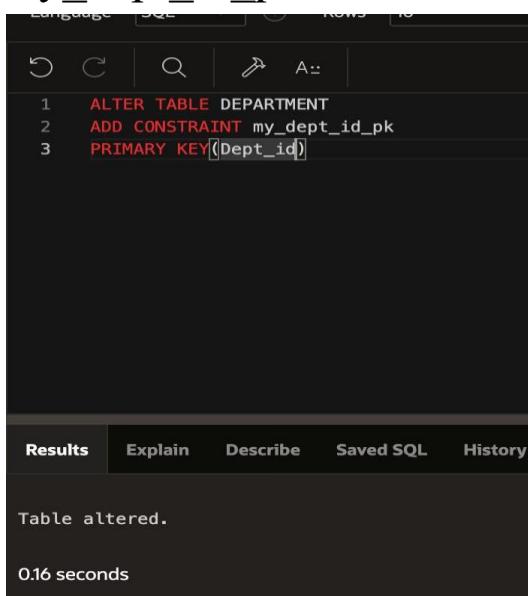
Results Explain Describe Saved SQL History

Table altered.

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



The screenshot shows a database interface with a dark theme. At the top, there are several icons: a refresh, a search, and two others. Below the icons is a SQL editor window containing the following code:

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

Below the SQL editor is a navigation bar with tabs: Results (which is selected), Explain, Describe, Saved SQL, and History. Under the Results tab, the output of the query is displayed:

Table altered.

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. At the top, there are icons for undo, redo, search, and help. Below the toolbar, the SQL query is displayed:

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

At the bottom, there are tabs for Results, Explain, Describe, and Saved SQL. The Results tab is selected, showing the output:

Table altered.
0.06 seconds

The screenshot shows a MySQL command-line interface. At the top, there are icons for undo, redo, search, and help. Below the toolbar, the SQL query is displayed:

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

A purple circular icon with a white upward-pointing arrow is positioned above the second line of the query.

At the bottom, there are tabs for Results, Explain, Describe, Saved SQL, and History. The Results tab is selected, showing 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.

Language SQL Rows 10

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

Results Explain Describe Saved SQL History

Table altered.

0.06 seconds