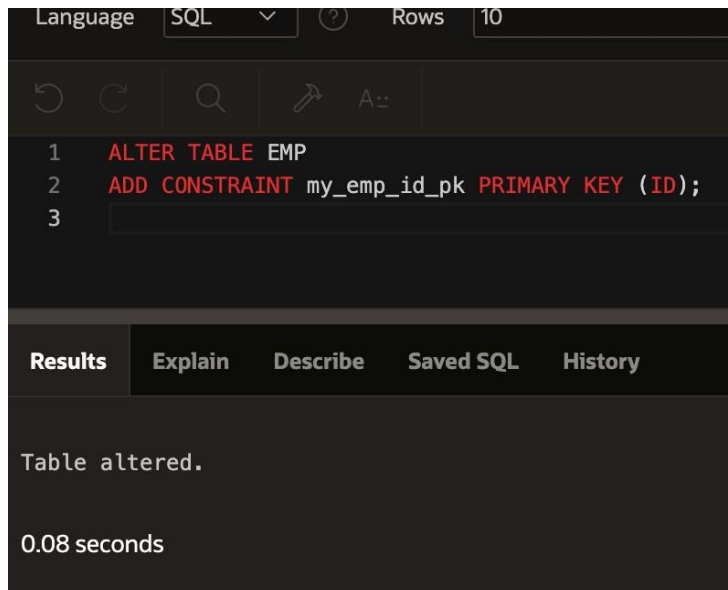


Exercise 3

Name	Palachuru Nandu Priya
Roll no	241801195
Department	Btech 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 SQL IDE interface. At the top, there is a 'Language' dropdown set to 'SQL' and a 'Rows' counter set to '10'. Below this is a toolbar with icons for undo, redo, search, and a keyboard shortcut 'A-z'. The main area contains a SQL query with line numbers 1, 2, and 3. The query is:
1 ALTER TABLE EMP
2 ADD CONSTRAINT my_emp_id_pk PRIMARY KEY (ID);
3
Below the query editor is a tabbed interface with 'Results' selected. The 'Results' tab shows the message 'Table altered.' and the execution time '0.08 seconds'. Other tabs visible are 'Explain', 'Describe', 'Saved SQL', and 'History'.

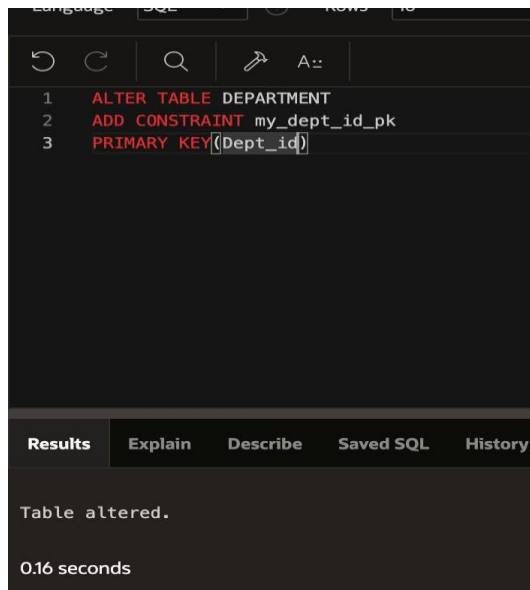
```
1 ALTER TABLE EMP
2 ADD CONSTRAINT my_emp_id_pk PRIMARY KEY (ID);
3
```

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



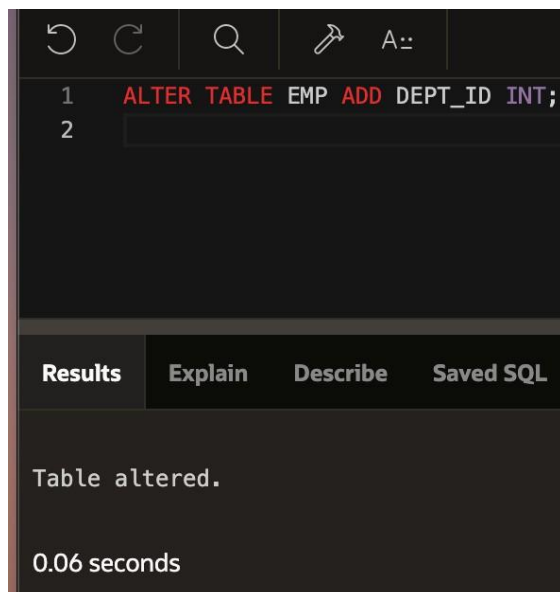
```
1 ALTER TABLE DEPARTMENT
2 ADD CONSTRAINT my_dept_id_pk
3 PRIMARY KEY (dept_id)
```

Results Explain Describe Saved SQL History

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.



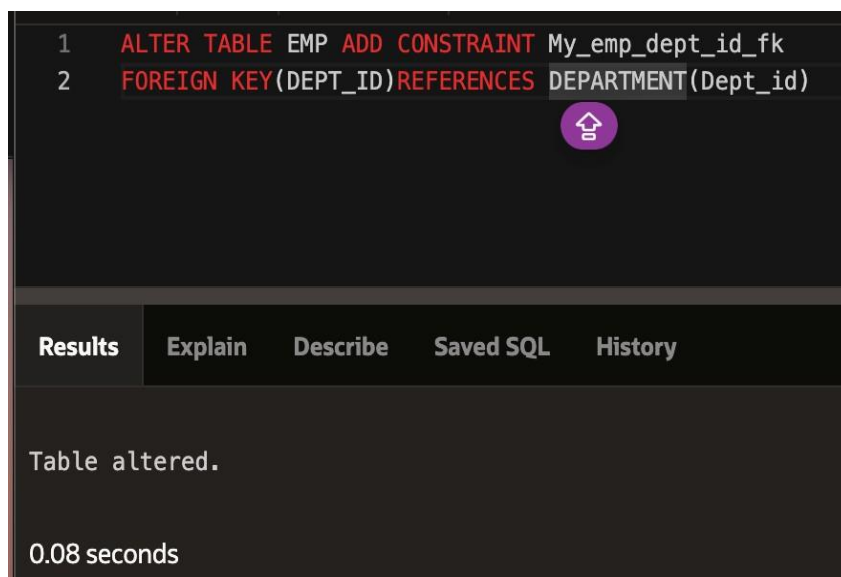
A screenshot of a SQL IDE interface. The top toolbar contains icons for undo, redo, search, and a dropdown menu. The SQL editor shows two lines of code: `1 ALTER TABLE EMP ADD DEPT_ID INT;` and `2` (which is empty). Below the editor is a tabbed interface with 'Results' selected. The results pane displays 'Table altered.' and '0.06 seconds'.

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

Results Explain Describe Saved SQL

Table altered.

0.06 seconds



A screenshot of a SQL IDE interface. The SQL editor shows two lines of code: `1 ALTER TABLE EMP ADD CONSTRAINT My_emp_dept_id_fk` and `2 FOREIGN KEY(DEPT_ID)REFERENCES DEPARTMENT(Dept_id)`. Below the editor is a tabbed interface with 'Results' selected. The results pane displays 'Table altered.' and '0.08 seconds'. A purple icon with a house symbol is visible in the editor area.

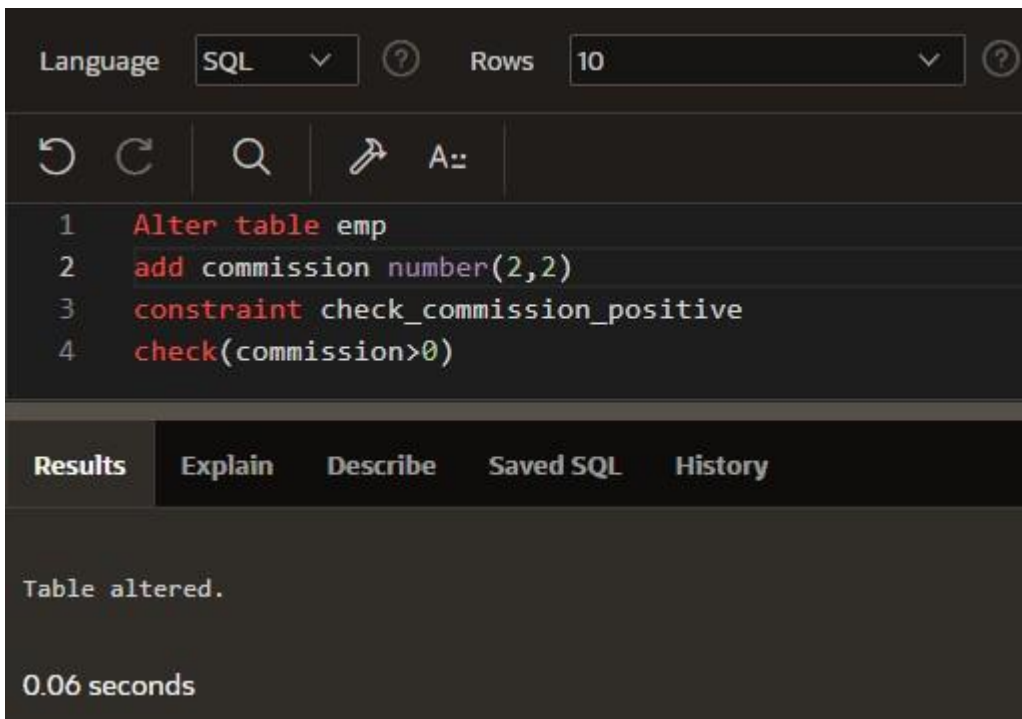
```
1 ALTER TABLE EMP ADD CONSTRAINT My_emp_dept_id_fk
2 FOREIGN KEY(DEPT_ID)REFERENCES DEPARTMENT(Dept_id)
```

Results Explain Describe Saved SQL History

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 IDE interface. At the top, there is a 'Language' dropdown set to 'SQL' and a 'Rows' dropdown set to '10'. Below this is a toolbar with icons for undo, redo, search, and a command prompt. The main area displays the following SQL code:

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

Below the code editor, there is a tabbed interface with 'Results' selected. The 'Results' tab shows the message 'Table altered.' and the execution time '0.06 seconds'.