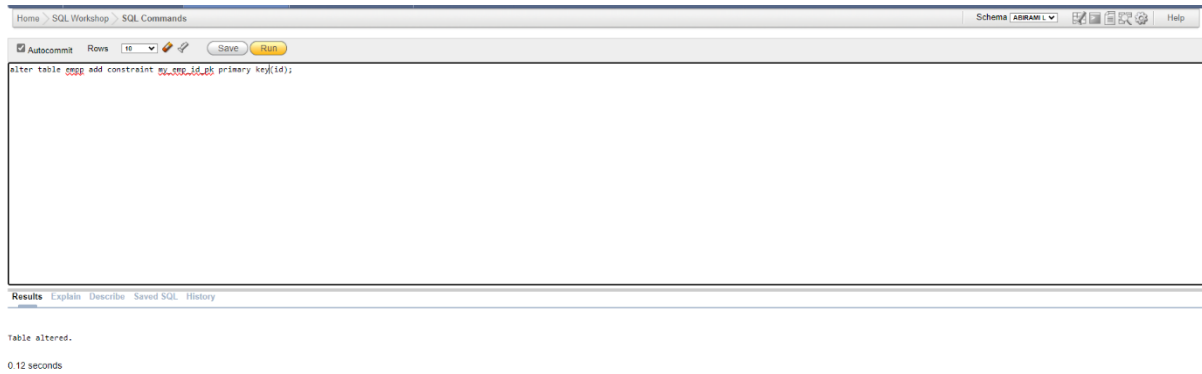


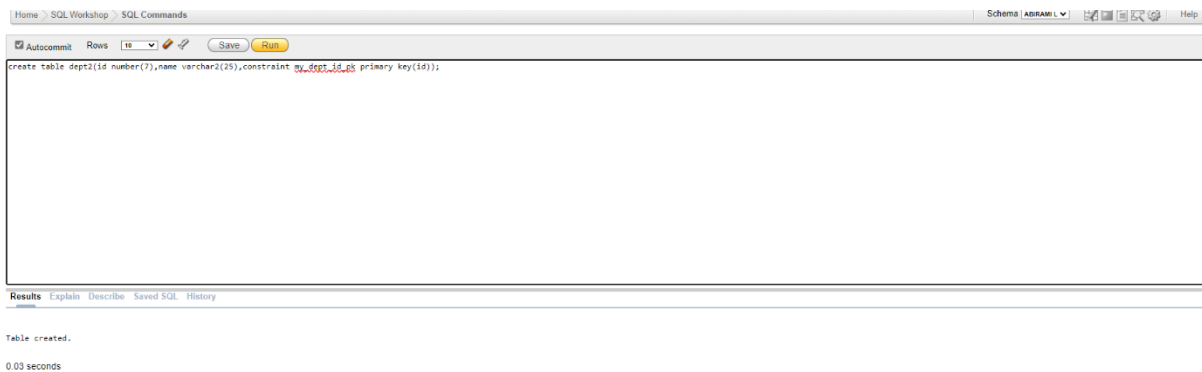
# Exercise-3 Including Constraints

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.



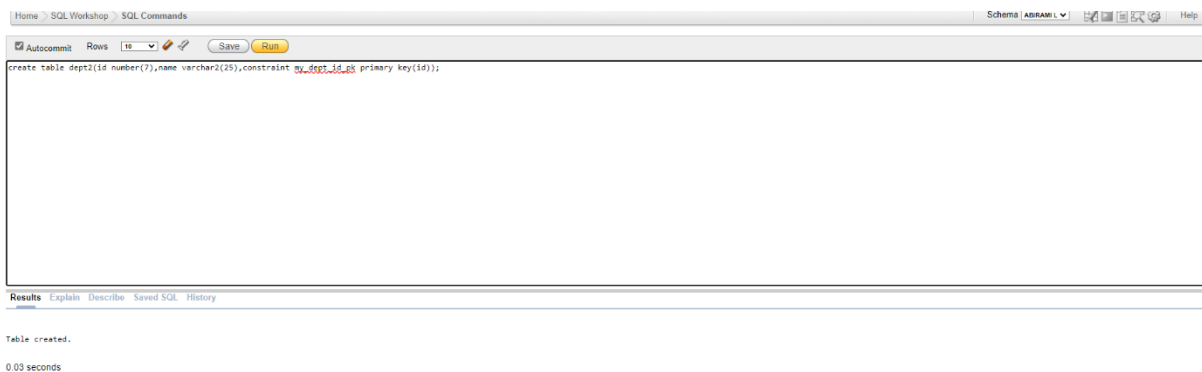
The screenshot shows the SQL Workshop interface. The top bar indicates the current schema is 'ABRAME.L'. The main text area contains the SQL command: `alter table emp add constraint my_emp_id_pk primary key(id);`. Below the command, the 'Results' tab is active, displaying the message 'Table altered.' and the execution time '0.12 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 the SQL Workshop interface. The main text area contains the SQL command: `create table dept2(id number(7),name varchar2(25),constraint my_dept_id_pk primary key(id));`. Below the command, the 'Results' tab is active, displaying the message 'Table created.' and the execution time '0.03 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 the SQL Workshop interface. The main text area contains the SQL command: `create table dept2(id number(7),name varchar2(25),constraint my_dept_id_pk primary key(id));`. Below the command, the 'Results' tab is active, displaying the message 'Table created.' and the execution time '0.03 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.



☒ Autocommit Rows 10   Save Run

```
alter table emp add commission number(2,2);
```

**Results** Explain Describe Saved SQL History

Table altered.

0.00 seconds

☒ Autocommit Rows 10   Save Run

```
alter table emp add constraint emp_cem_check check (commission>0);
```

**Results** Explain Describe Saved SQL History

Table altered.

0.02 seconds