

Create a table department in MySQL database with the following schema and constraints:

**department (dno, dname, location)**

*dno* (identifier for department number) is an integer attribute. *dname* (identifier for department name) is a variable character attribute of length 50. *location* (identifier for department location) is a variable character attribute of length 50.

**Constraints to set for the table department:**

1. dno is the key attribute
2. dname should not be empty and must be unique
3. set the default ‘location’ to “Main Block”

Create a table employee in MySQL database with the following schema and constraints:

**employee (empno, name, gender, salary, email, dno)**

*empno* (identifier for employee number) is an integer attribute. *name* (identifier for employee name) is a variable character attribute of length 50. *gender* is a fixed length attribute with a single character. *salary* is a floating point attribute with 5 decimal points and 2 fractional points. *Email* is a variable character attribute of length 100. *dno* (identifier for department number) is an integer attribute.

**Constraints to set for the table employee:**

1. empno is the key attribute
2. name should not be empty
3. check that the ‘salary’ is greater than 0
4. email must be unique

**Questions:**

1. Add a column phone to employee.
2. Change the size of name to 100 characters.
3. Add UNIQUE constraint to phone.
4. Add CHECK constraint so salary must be  $\geq 10000$ .
5. Drop the email column.
6. Add composite UNIQUE constraint on (name, phone).
7. Rename column name to ename.
8. Rename table department to dept.