GOA COLLEGE OF ENGINEERING

"Bhausaheb Bandodkar Technical Education Complex"

Experiment no. 3

TITLE: DDL for applying referential integrity and schema change commands

AIM:Execute DDL SQL statements to create a Schema.

PROBLEM STATEMENT:

Execute SQL queries to do the following

1. Create two relations with the following schema: DOCTOR last two digits of your roll no

Name of Attribute	datatype	size	constraint1	constraint2
Doctor_id	integer	6	Primary key	
Iname	varchar	20	Primary key	
Mobile_no	integer	11	UNIQUE	NOT NULL
Dept_id	integer	4	Foreign key	NOT NULL

DEPARTMENT_last two digits of your rollno

Name of Attribute	datatype	size	constraint1	constraint2
Dept_id	integer	4	Primary key	
Dept_name	varchar	20	UNIQUE	
Hod_id	integer	6	Foreign key	NOT NULL
Contact_no	integer	4	UNIQUE	NOT NULL

- 2.Describe the relations after the basic structure is created without foreign keys
- 3.Describe the final schema for both the relations (In the output include all the statements including alter that are used to obtain the final schema)

THEORY:

Foreign Key: A Foreign Key allows us to associate a row in one table to a row in another table.

This is done by setting a column in one table as a Foreign Key and having that column reference another table's Primary Key column.

Creating this relationship is done using the REFERENCES keyword in this form:

FOREIGN KEY (fk_col_name) REFERENCES target_table_name (pk_col_name);

References: The references keyword is used to define which table and column is used in a foreign key relationship

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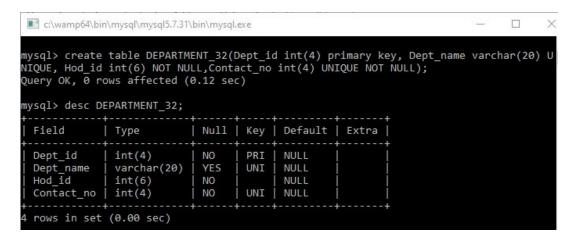
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OUTPUT:

```
c:\wamp64\bin\mysql\mysql5.7.31\bin\mysql.exe
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 25
Server version: 5.7.31 MySQL Community Server (GPL)
Copyright (c) 2000, 2020, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> show databases;
 Database
 information_schema
 classroom
 college_181105032
 mysql
 performance_schema
 rows in set (0.00 sec)
```





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CONCLUSION: DDL SQL statements to create a Schema were executed successfully.

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