

GITAM SCHOOL OF SCIENCES (GSS)
GITAM (Deemed to be University), Bengaluru Campus – 562163
DEPARTMENT OF COMPUTER SCIENCE

Program : B.C.A

Semester : IV

Course Code : CSCI2071

Course Title : DBMS Lab

Course Faculty : Dr. Rajesh L

Experiment 3: To implement Constraints

Create a Database and name it as **“movieinvoice”**

Syntax:

CREATE DATABASE databasename

Example:

CREATE DATABASE movieinvoice;

To ensure whether the database name already exists or not, Use the following command:

CREATE DATABASE IF NOT EXISTS movieinvoice;

Create a Table **cust** and save it in the invoice database

Name of the Table	cust	
Column Name	Format	Remarks
cust_id	Varchar(3)	Primary Key, NOT NULL
Lname	Varchar(15)	
Fname	Varchar(15)	
Area	Varchar(2)	
Mobile	Number(10)	

Syntax:

```
CREATE TABLE cust (  
    cust_id varchar(3) NOT NULL,  
    lname varchar(15),  
    fname varchar(15),  
    area varchar(2),  
    mobile number(10),  
    PRIMARY KEY (cust_id)
```

);

Insert the following data into the cust table:

Cust_id	Lname	Fname	Area	mobile
a01	Gill	Shubman	sa	9944123456
a02	Rajesh	Siddharth	mu	9444123456
a03	Kohli	Virat	da	9894123456
a04	Mirza	Sania	ba	8148123456
a05	Mandhana	Smriti	va	9800123456
a06	Dhoni	MS	gh	9700123456

Create a Table **movie** and save it in the invoice database

Name of the Table	movie	
Column Name	Format	Remarks
mv_no	number(2)	Primary Key, NOT NULL
Title	Varchar(25)	
mov_type	Varchar(10)	
star	Varchar(25)	
Price	Number(8,2)	

Syntax:

```
CREATE TABLE movie (  
    mv_no number(2) NOT NULL,  
    title varchar(25),  
    mov_type varchar(10),  
    star varchar(25),  
    price number(8,2),  
    PRIMARY KEY (mv_no)  
);
```

Insert the following data into the movie table:

mv_no	title	mov_type	star	price
1	Bloody vengenance	action	Jackie chan	180.95
2	The firm	thriller	Tom cruise	160.25
3	Home alone	comedy	Macaulay	200.00
4	The fugitive	horror	Ford	150.55
5	Gone with the wind	drama	clarke	100.00
6	Quick change	comedy	Bill	200.00
7	dracula	horror	Gary	100.00
8	coma	drama	Doughlas	100.00
9	Carry on doctor	comedy	Philips	150.25
10	vivegam	action	Ajith	200.00

Create a Table **invoice** and save it in the invoice database

Name of the Table	invoice	
Column Name	Format	Remarks
inv_no	varchar2(3)	Primary Key, NOT NULL
mv_no	number(2)	
cust_id	varchar2(3)	
issue_date	date	
return_date	date	

Syntax:

Syntax:

```
CREATE TABLE invoice (  
    inv_no varchar(3) NOT NULL,  
    mv_no number(2),  
    cust_id varchar(3),  
    issue_date date,  
    return_date date,  
    UNIQUE (inv_no),  
    FOREIGN KEY (cust_id) REFERENCES cust(cust_id),  
    CHECK (mv_no < 10)  
);
```

Insert the following data into the invoice table:

inv_no	mv_no	cust_id	issue_date	return_date
i01	4	a01	23-jul-22	25-jul-22
i02	3	a02	12-aug-22	15-aug-22
i03	1	a02	15-aug-22	18-aug-22
i04	6	a03	10-sep-22	13-sep-22
i05	7	a04	05-aug-22	08-aug-22
i06	2	a06	18-sep-22	21-sep-22
i07	9	a05	07-jul-22	10-jul-22
i08	9	a01	11-aug-22	14-aug-22
i09	5	a03	06-jul-22	09-jul-22
i10	8	a06	03-sep-22	06-sep-22

To drop a PRIMARY KEY constraint, use the following SQL:

```
ALTER TABLE cust DROP PRIMARY KEY;
```

To drop a FOREIGN KEY constraint, use the following SQL:

```
ALTER TABLE invoice DROP FOREIGN KEY;
```

To drop a CHECK constraint, use the following SQL:

```
ALTER TABLE invoice DROP CHECK;
```