

### **Assignment No 1 : Implementation of SQL-DDL commands (Create,Alter,Drop)**

1. Create the following tables with suitable constraints (use Auto increment, unique, not null, Default,

Primary key, Foreign key) and solve the queries:

Member (M\_id (pk), m\_name, m\_address,m\_phno)

Books (Book\_id (pk), bookname, bookauthor, bookpub, bookcost, DOPub,M\_id(fk))

Staff (staff\_id (pk), staff\_name, staff\_address, staff\_gender)

Issue (M\_id,Book\_id,Staff\_id (pk),,issue\_date,return\_date,fine)

(Note: Dont insert any value for fine,keep it null or zero)

2. Use Alter table command to add foreign key constraint , Add new column and remove any one column, Increase the size of any attribute.

3. Demonstrate the use of Drop command to delete the database created, delete the table and column.

```
CREATE DATABASE LibraryMS;
```

```
USE LibraryMS;
```

```
CREATE TABLE Members(  
Member_id INT NOT NULL,  
Member_Name VARCHAR(40) NOT NULL,  
Member_Address VARCHAR(50),  
Member_PhoneNo VARCHAR(10) UNIQUE,  
PRIMARY KEY(Member_id)  
);
```

```
CREATE TABLE Books(  
Book_id INT NOT NULL PRIMARY KEY,  
Book_Name VARCHAR(35),
```

```
Book_Author VARCHAR(30),  
Book_Publication VARCHAR(10),  
Book_cost INT NOT NULL,  
DOPublication DATE NOT NULL  
);
```

**ALTER table Books**

**drop column Book\_Publication;**

ALTER table Books

add column Book\_Publication VARCHAR(35) NOT NULL;

ALTER table Books

ADD column Member\_id INT,

ADD FOREIGN KEY(Member\_id) REFERENCES Members(Member\_id);

CREATE TABLE Staff(  
staff\_id INT AUTO\_INCREMENT PRIMARY KEY,

staff\_Name VARCHAR(30) NOT NULL,

staff\_Address VARCHAR(40),

staff\_gender VARCHAR(6)

);

CREATE TABLE Issues(  
Book\_id INT,

FOREIGN KEY(Book\_id) REFERENCES Books(Book\_id),

staff\_id INT,

FOREIGN KEY(staff\_id) REFERENCES Staff(staff\_id),

Member\_id INT,

```

IssueDate DATE,
ReturnDate DATE,
fine INT
);

```

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Field	Type	Null	Key	Default	Extra
Book_id	int	NO	PRI	HULL	
Book_Name	varchar(35)	YES		HULL	
Book_Author	varchar(30)	YES		HULL	
Book_Publication	varchar(35)	YES		HULL	
Book_cost	int	NO		HULL	
DOPublication	date	YES		HULL	
Member_id	int	YES	MUL	HULL	

```

INSERT INTO
Members(Member_id,Member_Name,Member_Address,Member_PhoneNo)
VALUES(100,"Madhura","Padmavati",8967564567),
      (101,"Ahana","VimanNagar",8757979078),
      (102,"Sneha","Baner",8978676578),
      (103,"Pallavi","KalyaniNagar",7867564567),
      (104,"Purva","Araneshwar Park",8789898789),
      (105,"Aarya","Surat",6876890890),
      (106,"Rasika","FCRoad",7879789876),
      (107,"Sanika","Sahakar Nagar",7867564534);

```

```

INSERT INTO
Books(Book_id,Book_Name,Book_Author,Book_Publication,Book_cost,DOPublication)
VALUES (1200,"The Subtle Art of Not Giving a Fuck","Mark Manson","HarperCollins
Publishers",250,'2017-05-10');
INSERT INTO
Books(Book_id,Book_Name,Book_Author,Book_Publication,Book_cost,DOPublication)
VALUES (1201,"Harry Potter","J.K.Rowling","Penguin Publication",370,'2001-07-23'),
      (1202,"Malgudi Days","R.K.Narayan","Malgudi Publishers",150,'1999-05-12'),
      (1203,"The Room on the Roof","Ruskin Bond","HarperCollins",200,'2000-08-13'),
      (1204,"The God of Small Things","Arundhati Roy","Penguin Random
House",390,'2006-08-10'),

```

```
(1205,"Pathways to Light","Dr Prakash Amte","Penguin Publication",210,'2000-03-08'),  
(1206,"Rich Dad Poor Dad","Robert T. Kiyosaki","Penguin Publication",300,'2008-06-03');
```

```
INSERT INTO Staff(staff_Name,staff_Address,staff_gender)
```

```
VALUES ("Aditi Shinde","Kothrud","F"),
```

```
      ("Rama Edlabadkar","Dhankawadi","F"),
```

```
      ("Sachin Pilgaonkar","Warje","M"),
```

```
      ("Soham Deshpande","Aundh","M"),
```

```
      ("Chetana Kumar","Pimpri","F"),
```

```
      ("Sagar Chawla","Baner","M");
```

```
INSERT INTO Issues(Book_id,staff_id,Member_id,IssueDate,ReturnDate,fine)
```

```
VALUES (1201,1,101,'2020-02-25','2020-06-30',0),
```

```
      (1206,4,103,'2021-04-30','2021-05-25',0),
```

```
      (1203,2,105,'2021-05-12','2021-06-30',0),
```

```
      (1204,3,104,'2020-12-03','2021-02-18',0),
```

```
      (1202,2,102,'2020-03-10','2020-04-10',0);
```

```
DROP TABLE hello;
```

```
DROP database world;
```