

# DBMS-LAB1

NAME:PRAMATH S

CLASS:G

SRN:PES1UG21CS425

```
mysql> create schema art_gallery_425;
Query OK, 1 row affected (0.01 sec)

mysql> use art_gallery_425;
Database changed
```

## Artist

```
mysql> create table artist_425(artist_id int not null primary key , first_name varchar(50) not null , last_name varchar(50) not null, contact_no int not null unique, ratings int, username varchar(50) not null, password varchar(50) not null, location varchar(50) not null );
Query OK, 0 rows affected (0.04 sec)

mysql>
```

```
| Table      | Create Table
+-----+
| artist_425 | CREATE TABLE `artist_425` (
  `artist_id` int NOT NULL,
  `first_name` varchar(50) NOT NULL,
  `last_name` varchar(50) NOT NULL,
  `contact_no` int NOT NULL,
  `ratings` int DEFAULT NULL,
  `username` varchar(50) NOT NULL,
  `password` varchar(50) NOT NULL,
  `location` varchar(50) NOT NULL,
  PRIMARY KEY (`artist_id`),
  UNIQUE KEY `contact_no` (`contact_no`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
+-----+
1 row in set (0.01 sec)

mysql>
```

## 2. Artist\_Specialization:

```
mysql>
mysql> create table artist_specialization_425( artist_id int not null,specialization varchar(50) not null ,primary key(specialization,artist_id));
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> show create table artist_specialization_425;
```

```
+-----+
| Table          | Create Table
+-----+
| artist_specialization_425 | CREATE TABLE 'artist_specialization_425' (
  'artist_id' int NOT NULL,
  'specialization' varchar(50) NOT NULL,
  PRIMARY KEY ('specialization','artist_id')
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
+-----+
1 row in set (0.00 sec)
```

```
mysql> alter table artist_specialization_425 add constraint c9 foreign key(artist_id) references artist_425(artist_id) on delete cascade on update cascade;
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
+-----+
| artist_specialization_425 | CREATE TABLE 'artist_specialization_425' (
  'artist_id' int NOT NULL,
  'specialization' varchar(50) NOT NULL,
  PRIMARY KEY ('specialization','artist_id'),
  KEY 'c9' ('artist_id'),
  CONSTRAINT 'c9' FOREIGN KEY ('artist_id') REFERENCES 'artist_425' ('artist_id') ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
+-----+
1 row in set (0.00 sec)
mysql> |
```

### 3. Comments

```
mysql> create table comments_425( art_id int not null, comments varchar(50), primary key(comments,art_id) );
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> show create table comments_425;
+-----+
| Table          | Create Table
+-----+
| comments_425 | CREATE TABLE 'comments_425' (
  'art_id' int NOT NULL,
  'comments' varchar(50) NOT NULL,
  PRIMARY KEY ('comments','art_id')
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
+-----+
1 row in set (0.00 sec)
```

```
mysql> alter table comments_425 add constraint c10 foreign key(art_id) references art_425(art_id) on delete cascade on update cascade;
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```

+-----+
| comments_425 | CREATE TABLE `comments_425` (
  `art_id` int NOT NULL,
  `comments` varchar(50) NOT NULL,
  PRIMARY KEY (`comments`,`art_id`),
  KEY `c10` (`art_id`),
  CONSTRAINT `c10` FOREIGN KEY (`art_id`) REFERENCES `art_425` (`art_id`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
+-----+

1 row in set (0.00 sec)

mysql> |

```

#### 4.ART

```

mysql> create table art_425 (gallery_id int not null, art_id int not null primary key, artist_id int not null, art_title
varchar(50) not null, art_type varchar(50), availability enum("yes","no") default "yes", art_price int check (art_price
<= 500), likes int, description varchar(50) not null, created_date date not null);
Query OK, 0 rows affected (0.04 sec)

```

```

+-----+
| art_425 | CREATE TABLE `art_425` (
  `gallery_id` int NOT NULL,
  `art_id` int NOT NULL,
  `artist_id` int NOT NULL,
  `art_title` varchar(50) NOT NULL,
  `art_type` varchar(50) DEFAULT NULL,
  `availability` enum('yes','no') DEFAULT 'yes',
  `art_price` int DEFAULT NULL,
  `likes` int DEFAULT NULL,
  `description` varchar(50) NOT NULL,
  `created_date` date NOT NULL,
  PRIMARY KEY (`art_id`),
  CONSTRAINT `art_425_chk_1` CHECK ((`art_price` <= 500))
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
+-----+

```

```

mysql> alter table art_425 add constraint c1 foreign key(gallery_id) references gallery_425(gallery_id) on delete cascad
e on update cascade;
Query OK, 0 rows affected (0.07 sec)
Records: 0 Duplicates: 0 Warnings: 0

```

```

+-----+
| art_425 | CREATE TABLE `art_425` (
  `gallery_id` int NOT NULL,
  `art_id` int NOT NULL,
  `artist_id` int NOT NULL,
  `art_title` varchar(50) NOT NULL,
  `art_type` varchar(50) DEFAULT NULL,
  `availability` enum('yes','no') DEFAULT 'yes',
  `art_price` int DEFAULT NULL,
  `likes` int DEFAULT NULL,
  `description` varchar(50) NOT NULL,
  `created_date` date NOT NULL,
  PRIMARY KEY (`art_id`),
  KEY `c1` (`gallery_id`),
  CONSTRAINT `c1` FOREIGN KEY (`gallery_id`) REFERENCES `gallery_425` (`gallery_id`) ON DELETE CASCADE ON UPDATE CASCADE
,
  CONSTRAINT `art_425_chk_1` CHECK ((`art_price` <= 500))
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
+-----+

```

#### 5.Exhibited

```

mysql>
mysql> create table exhibited_425(art_id int not null,ex_id int not null,primary key(art_id,ex_id));
Query OK, 0 rows affected (0.02 sec)

```

```

mysql> show create table exhibited_425;
+-----+
| Table          | Create Table
+-----+
| exhibited_425 | CREATE TABLE `exhibited_425` (
  `art_id` int NOT NULL,
  `ex_id` int NOT NULL,
  PRIMARY KEY (`art_id`,`ex_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
+-----+
1 row in set (0.01 sec)

```

```

mysql>
mysql> alter table exhibition_425 add constraint c4 foreign key(gallery_id) references gallery_425(gallery_id) on delete
cascade on update cascade;
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> show create table exhibition_425;

```

```

mysql>
mysql> alter table exhibited_425 add constraint c2 foreign key(art_id) references art_425(art_id), add constraint c3 f
oreign key(ex_id) references exhibition_425(ex_id);
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> show create table exhibited_425;

```

```

+-----+
| Table          | Create Table
+-----+
| exhibited_425 | CREATE TABLE `exhibited_425` (
  `art_id` int NOT NULL,
  `ex_id` int NOT NULL,
  PRIMARY KEY (`art_id`,`ex_id`),
  KEY `c3` (`ex_id`),
  CONSTRAINT `c2` FOREIGN KEY (`art_id`) REFERENCES `art_425` (`art_id`),
  CONSTRAINT `c3` FOREIGN KEY (`ex_id`) REFERENCES `exhibition_425` (`ex_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
+-----+
1 row in set (0.00 sec)
mysql>

```

## 6.Exhibition

```

mysql>
mysql> create table exhibition_425(ex_id int primary key, gallery_id int not null, start_date date not null,end_date d
ate not null);
Query OK, 0 rows affected (0.02 sec)

```

```

-----+
| Table          | Create Table
|
+-----+-----+
-----+
| exhibition_425 | CREATE TABLE `exhibition_425` (
  `ex_id` int NOT NULL,
  `gallery_id` int NOT NULL,
  `start_date` date NOT NULL,
  `end_date` date NOT NULL,
  PRIMARY KEY (`ex_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
+-----+-----+
-----+
1 row in set (0.00 sec)

```

```

mysql>
mysql> alter table exhibition_425 add constraint c4 foreign key(gallery_id) references gallery_425(gallery_id) on delete cascade on update cascade;
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0

```

```

-----+
-----+
-----+
| exhibition_425 | CREATE TABLE `exhibition_425` (
  `ex_id` int NOT NULL,
  `gallery_id` int NOT NULL,
  `start_date` date NOT NULL,
  `end_date` date NOT NULL,
  PRIMARY KEY (`ex_id`),
  KEY `c4` (`gallery_id`),
  CONSTRAINT `c4` FOREIGN KEY (`gallery_id`) REFERENCES `gallery_425` (`gallery_id`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
+-----+-----+
-----+
1 row in set (0.00 sec)

mysql> |

```

## 7. Gallery

```

mysql> create table gallery_425(gallery_id int primary key, g_name varchar(50) not null, opening_time time not null, closing_time time not null, entry_fee int not null, location varchar(100) not null);
Query OK, 0 rows affected (0.02 sec)

```

```

-----+
-----+
-----+
| gallery_425 | CREATE TABLE `gallery_425` (
  `gallery_id` int NOT NULL,
  `g_name` varchar(50) NOT NULL,
  `opening_time` time NOT NULL,
  `closing_time` time NOT NULL,
  `entry_fee` int NOT NULL,
  `location` varchar(100) NOT NULL,
  PRIMARY KEY (`gallery_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
+-----+-----+
-----+
1 row in set (0.01 sec)

```

## 8. Customer

```

for the right syntax to use near 'varchar(50) not null)' at line 1
mysql> create table customer_425(cust_id int primary key, first_name varchar(50) not null, last_name varchar(50) not null, location varchar(50) not null, contact_no int(10) not null, password varchar(50) not null);
Query OK, 0 rows affected, 1 warning (0.02 sec)

```

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| customer_425 | CREATE TABLE `customer_425` (
|   `cust_id` int NOT NULL,
|   `first_name` varchar(50) NOT NULL,
|   `last_name` varchar(50) NOT NULL,
|   `location` varchar(50) NOT NULL,
|   `contact_no` int NOT NULL,
|   `password` varchar(50) NOT NULL,
|   PRIMARY KEY (`cust_id`)
| ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.01 sec)

```

## 9. Purchase

```

mysql> create table purchase_425(order_id int not null, cust_id int not null, art_id int not null);
Query OK, 0 rows affected (0.01 sec)

```

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| purchase_425 | CREATE TABLE `purchase_425` (
|   `order_id` int NOT NULL,
|   `cust_id` int NOT NULL,
|   `art_id` int NOT NULL
| ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.01 sec)

```

```

mysql>
mysql> alter table purchase_425 add constraint c5 foreign key(order_id) references order_425(order_id) on delete cascade
on update cascade, add constraint c6 foreign key(cust_id) references customer_425(cust_id) on delete cascade on update
cascade , add constraint c7 foreign key(art_id) references art_425(art_id) on update cascade on delete cascade;
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0

```

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| purchase_425 | CREATE TABLE `purchase_425` (
|   `order_id` int NOT NULL,
|   `cust_id` int NOT NULL,
|   `art_id` int NOT NULL,
|   KEY `c5` (`order_id`),
|   KEY `c6` (`cust_id`),
|   KEY `c7` (`art_id`),
|   CONSTRAINT `c5` FOREIGN KEY (`order_id`) REFERENCES `order_425` (`order_id`) ON DELETE CASCADE ON UPDATE CASCADE,
|   CONSTRAINT `c6` FOREIGN KEY (`cust_id`) REFERENCES `customer_425` (`cust_id`) ON DELETE CASCADE ON UPDATE CASCADE,
|   CONSTRAINT `c7` FOREIGN KEY (`art_id`) REFERENCES `art_425` (`art_id`) ON DELETE CASCADE ON UPDATE CASCADE
| ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

```

## 10. Order

```

mysql> create table order_425(order_id int primary key, amount int not null,description varchar(50) not null,time_stamp
datetime);
Query OK, 0 rows affected (0.02 sec)

```

```
mysql> show create table order_425;
+-----+
| Table | Create Table
+-----+
| order_425 | CREATE TABLE `order_425` (
  `order_id` int NOT NULL,
  `amount` int NOT NULL,
  `description` varchar(50) NOT NULL,
  `time_stamp` datetime DEFAULT NULL,
  PRIMARY KEY (`order_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
+-----+
1 row in set (0.01 sec)

mysql>
```

## 11. Payment

```
mysql> create table payment_425( order_id int not null,time_stamp datetime, amount int not null, status varchar(10) not null);
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> show create table payment_425;
```

```
mysql> show create table payment_425;
+-----+
| Table | Create Table
+-----+
| payment_425 | CREATE TABLE `payment_425` (
  `order_id` int NOT NULL,
  `time_stamp` datetime DEFAULT NULL,
  `amount` int NOT NULL,
  `status` varchar(10) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
+-----+
1 row in set (0.00 sec)

mysql> |
```

```
mysql> alter table payment_425 add constraint c8 foreign key(order_id) references order_425(order_id) on delete cascade on update cascade;
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
-----+
| Table | Create Table
-----+
|
-----+
| payment_425 | CREATE TABLE `payment_425` (
  `order_id` int NOT NULL,
  `time_stamp` datetime DEFAULT NULL,
  `amount` int NOT NULL,
  `status` varchar(10) NOT NULL,
  KEY `c8` (`order_id`),
  CONSTRAINT `c8` FOREIGN KEY (`order_id`) REFERENCES `order_425` (`order_id`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
-----+
1 row in set (0.00 sec)

mysql> |
```

## Task2

1.

```
mysql>
mysql> alter table artist_425 add gender enum("m","f") not null;
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> show create table artist_425;
+-----+
| Table          | Create Table
+-----+
| artist_425 | CREATE TABLE 'artist_425' (
  'artist_id' int NOT NULL,
  'first_name' varchar(50) NOT NULL,
  'last_name' varchar(50) NOT NULL,
  'contact_no' int NOT NULL,
  'ratings' int DEFAULT NULL,
  'username' varchar(50) NOT NULL,
  'password' varchar(50) NOT NULL,
  'location' varchar(50) NOT NULL,
  'gender' enum('m','f') NOT NULL,
  PRIMARY KEY ('artist_id'),
  UNIQUE KEY 'contact_no' ('contact_no')
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
+-----+

1 row in set (0.00 sec)

mysql> |
```

2.

```
mysql> alter table art_425 drop check art_425_chk_1;
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> show create table art_425;
```

```
+-----+
| art_425 | CREATE TABLE 'art_425' (
  'gallery_id' int NOT NULL,
  'art_id' int NOT NULL,
  'artist_id' int NOT NULL,
  'art_title' varchar(50) NOT NULL,
  'art_type' varchar(50) DEFAULT NULL,
  'availability' enum('yes','no') DEFAULT 'yes',
  'art_price' int DEFAULT NULL,
  'likes' int DEFAULT NULL,
  'description' varchar(50) NOT NULL,
  'created_date' date NOT NULL,
  PRIMARY KEY ('art_id'),
  KEY 'c1' ('gallery_id'),
  CONSTRAINT 'c1' FOREIGN KEY ('gallery_id') REFERENCES 'gallery_425' ('gallery_id') ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
+-----+
```

```
+-----+
| art_425 | CREATE TABLE 'art_425' (
  'gallery_id' int NOT NULL,
  'art_id' int NOT NULL,
  'artist_id' int NOT NULL,
  'art_title' varchar(50) NOT NULL,
  'art_type' varchar(50) DEFAULT NULL,
  'availability' enum('yes','no') DEFAULT 'yes',
  'art_value' int DEFAULT NULL,
  'likes' int DEFAULT NULL,
  'description' varchar(50) NOT NULL,
  'created_date' date NOT NULL,
  PRIMARY KEY ('art_id'),
  KEY 'c1' ('gallery_id'),
  CONSTRAINT 'c1' FOREIGN KEY ('gallery_id') REFERENCES 'gallery_425' ('gallery_id') ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
+-----+

1 row in set (0.00 sec)

mysql> |
```

3.



```
mysql> alter table gallery_425 add constraint chk_entry check(entry_fee>=100), modify entry_fee int default 100;
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> show create table gallery_425;
+-----+-----+
| Table           | Create Table                                           |
+-----+-----+
| gallery_425 | CREATE TABLE `gallery_425` (
  `gallery_id` int NOT NULL,
  `g_name` varchar(50) NOT NULL,
  `opening_time` time NOT NULL,
  `closing_time` time NOT NULL,
  `entry_fee` int DEFAULT '100',
  `location` varchar(100) NOT NULL,
  PRIMARY KEY (`gallery_id`),
  CONSTRAINT `chk_entry` CHECK ((`entry_fee` >= 100))
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
+-----+-----+
1 row in set (0.00 sec)

mysql> |
```

4.

```
mysql> create table online_gallery_425 like gallery_425;
Query OK, 0 rows affected (0.01 sec)

mysql> show create table online_gallery_425;
+-----+-----+
| Table           | Create Table                                           |
+-----+-----+
| online_gallery_425 | CREATE TABLE `online_gallery_425` (
  `gallery_id` int NOT NULL,
  `g_name` varchar(50) NOT NULL,
  `opening_time` time NOT NULL,
  `closing_time` time NOT NULL,
  `entry_fee` int DEFAULT '100',
  `location` varchar(100) NOT NULL,
  PRIMARY KEY (`gallery_id`),
  CONSTRAINT `online_gallery_425_chk_1` CHECK ((`entry_fee` >= 100))
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
+-----+-----+
1 row in set (0.00 sec)

mysql> |
```

5.

```
mysql> drop table online_gallery_425;
Query OK, 0 rows affected (0.01 sec)

mysql> drop table online_gallery_425;
ERROR 1051 (42S02): Unknown table 'art_gallery_425.online_gallery_425'
mysql> |
```