

## **Lab # 01:**

### **“Introduction to Database”**

#### **Lab Objectives:**

- Concept of Database
- Different terminologies in Tabular Database
- Introduction to MS Access
- Creating Database with MS Access

#### **Introduction:**

##### **Database:**

A database-management system (DBMS) is a collection of interrelated data and a set of programs to access those data. The collection of data, usually referred to as the database, contains information relevant to an enterprise. The primary goal of a DBMS is to provide a way to store and retrieve database information that is both convenient and efficient.

A DBMS is the database itself, along with all the software and functionality. It is used to perform different operations, like addition, access, updating, and deletion of the data.

##### **Microsoft Access:**

Microsoft Access is a well-known database management system produced by Microsoft and is part of the Microsoft 365 office suite. Microsoft Access combines Microsoft's relational Jet Database Engine with software development tools and a graphic user interface (GUI).

We will be using MS Access to design and implement of Database concept for few labs.

#### **In-Lab Tasks:**

##### **Task # 01:**

##### **Student:**

Course		Faculty		Student			
ID	First_Name	Last_Name	Email	Birth	Department	Semester	
1	student1	last	firststudent@e	1999	ECE	VIII	
2	student2	last2	secondstudent	2000	ECE	VII	
3	student3	last3	thirdstudent@	2001	CS	V	
4	student4	last4	fourthstudent(	2002	CS	III	
*	0						

##### **Faculty:**

Course		Faculty		Student	
ID	Member_Na	Department	Email		
F_001	Faculty1	ECE	faculty1@emai		
F_002	Faculty2	CS	faculty2@emai		
F_003	Faculty3	SE	faculty3@emai		
F_004	Faculty4	AI	faculty4@emai		
*					

## Course:

Course_Cod	Course_Nam
CC111	Course1
CC112	Course2
CC113	Course3
CC114	Course4
*	

## Post-Lab Tasks:

### Task # 01:

#### First 3 columns:

BAND NAME	MEMBERS	PRICE
HIGH IN DRY	4	\$500.00
SQUARE DANCE TRIO	3	\$650.00
BLUE SOX QUARTET	4	\$550.00
YOUNG AND PROUD	5	\$750.00
MATTHEW AND SON	3	\$750.00
CRUISING	5	\$700.00
FLYING COLOURS	5	\$800.00

#### Remaining Columns:

MUSIC TYPE	NOTES
ROCK & ROLL	weddings, balls,dances preferred
COUNTRY & WESTERN	refers C&W gigs and concerts suitable for weddings
JAZZ	jazz festivals, dances. Prefers smaller gigs
ROCK & ROLL	young band, suits concerts and school functions
ROCK & ROLL	a young band, prefers gigs with a younger audience
JAZZ	suitable for older audiences, has a good repertoire of older dance numbers
JAZZ	suitable for dances and mature audiences

#### Whole Table Look:

BAND NAME	MEMBERS	PRICE	MUSIC TYPE	NOTES
HIGH IN DRY	4	\$500.00	ROCK & ROLL	weddings, balls,dances preferred
SQUARE DANCE TRIO	3	\$650.00	COUNTRY & WESTERN	refers C&W gigs and concerts suitable for weddings
BLUE SOX QUARTET	4	\$550.00	JAZZ	jazz festivals, dances. Prefers smaller gigs
YOUNG AND PROUD	5	\$750.00	ROCK & ROLL	young band, suits concerts and school functions
MATTHEW AND SON	3	\$750.00	ROCK & ROLL	a young band, prefers gigs with a younger audience
CRUISING	5	\$700.00	JAZZ	suitable for older audiences, has a good repertoire of older dance numbers
FLYING COLOURS	5	\$800.00	JAZZ	suitable for dances and mature audiences