# COLLEGE OF ENGINEERING VATAKARA DEPT. OF COMPUTER APPLICATIONS

Course Code & Course Name: 20MCA134 Advanced DBMS Lab (Lab Experiment Details, 2020 Admission)

REG\_NO: VDA20MCA2034 NAME: GOPIKA P

S. No.	Experiment Title	Experiment Details	Date of Completion	Database Used	Remarks
1	Experiment with DDL commands in SQL	Create database for the schemas  • Program (Program_ID, Program_Name, Duration, St_Strength, Program_Type, No_Semesters)  • Student (First_Name, Last_Name, Reg_no, Program_ID, DOB,Sex, Year Admission)	22-06-2021	MySQL	Address the Key Concepts and Normalizations. Use appropriate datatypes to the attributes. Add Unique and Not Null Constraints
2.	Experiment with DDL & DML commands in SQL	Perform insertion of records into the database created in the first experiment. Alter the created table and Perform the Insertion, Updation and Deletion operation. Drop the created table and remake it.	03-08-2021	MySQL	Familiarize the DDL and DML Commands

3.	Experiment with DDL & DML commands in SQL	Create database for the schemas  • Course(Course_ID, Course_Name, Credit, Semester, Internal_Mark, External_Mark Course_Type)  • Student_Mark(Reg_No, Course_ID, Student_Internal, Student_External)  After associating these schemas in to the already created database and perform row insertion, deletion and updation.	10-08-2021	MySQL	Familiarize the DDL and DML Commands in SQL
4,	Experiment that retrieves data from database with simple SQL queries.	Data retrieval from the already created database/ Create new sample database and necessary adding of data are made then perform the query selections.		MySQL	Perform simple selection using with comparison operators. Familiarization of keywords such as distinct, all, etc.,
5,	Experiment that retrieves data from database by means using nested SQL queries.	Data retrieval from the already created database/ Create new sample database and necessary adding of data are made then perform the query selections.		MySQL	Perform nested query selection using with comparison operators and Logical connectives
6.	Experiment that works with string operations in SQL	Data retrieval from the already created database/ Create new sample database and necessary adding of data are made then perform the query selections.		MySQL	Write queries that familiarize all string operations in SQL.

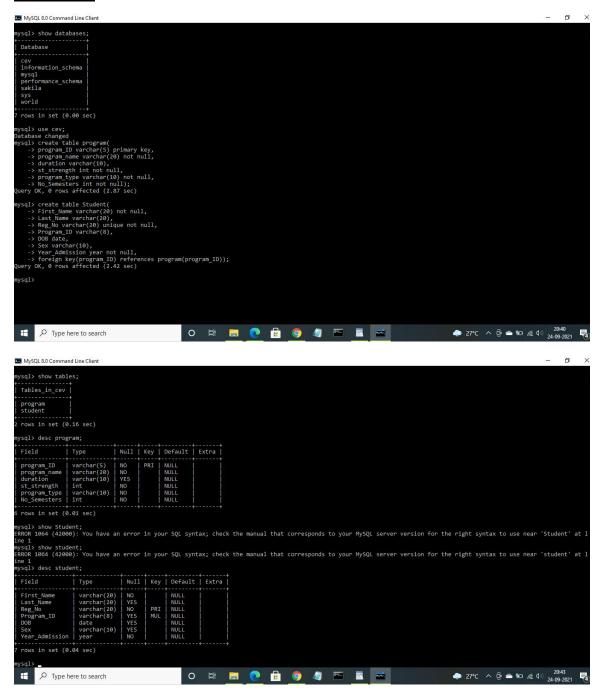
7.	Experiment that works with Aggregate functions in SQL	Data retrieval from the already created database/ Create new sample database and necessary adding of data are made then perform the query selections.	MySQL	Write sample queries that familiarize all aggregate functions, group by and having clauses in SQL
8.	Experiment that works with set operations in SQL	Data retrieval from the already created database/ Create new sample database and necessary adding of data are made then perform the query selections.	MySQL	Write sample queries that familiarize all set operations in SQL.
9.	Experiment that retrieves data from the created views in SQL	Define a view on the already created database and perform query selection on it.	MySQL	Create sample view and write sample queries on it.
10.	Experiment that drives the knowledge on the development of sample database system	Develop a tiny database system and do necessary adding of data and data retrieval from that.	MySQL	Create sample database systems such as Department Library system, College canteen system, Hostel system, College store system etc.

**AIM:** Create database for the schemas

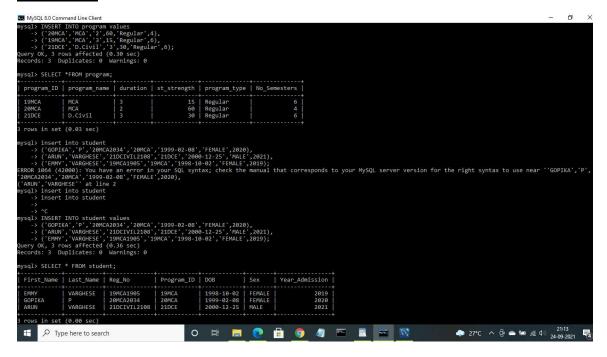
- Program (Program\_ID, Program\_Name, Duration, St\_Strength,
- Program\_Type, No\_Semesters)
- Student (First\_Name, Last\_Name, Reg\_no, Program\_ID,

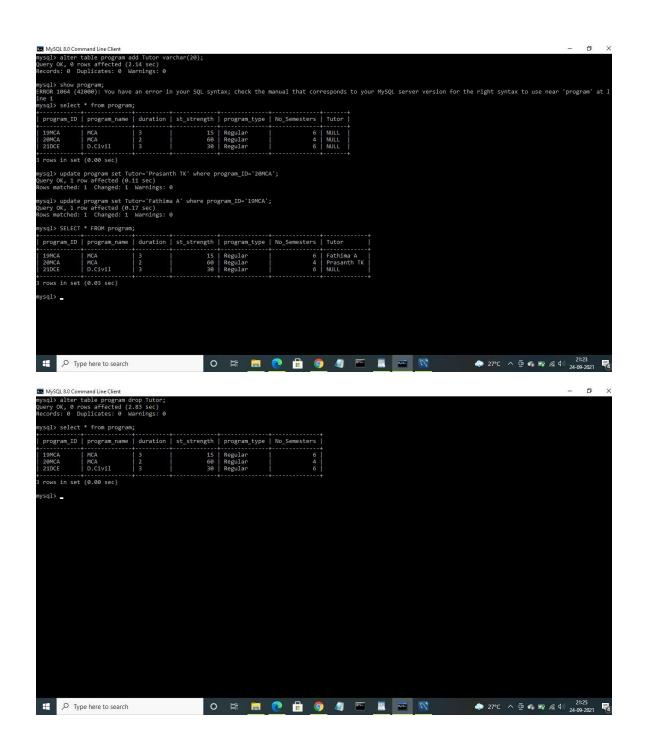
#### DOB, Sex,

### Year Admission)



<u>AIM:</u>Perform insertion of records into the database created in the first experiment. Alter the created table and Perform the Insertion, Updation and Deletion operation. Drop the created table and remake it.





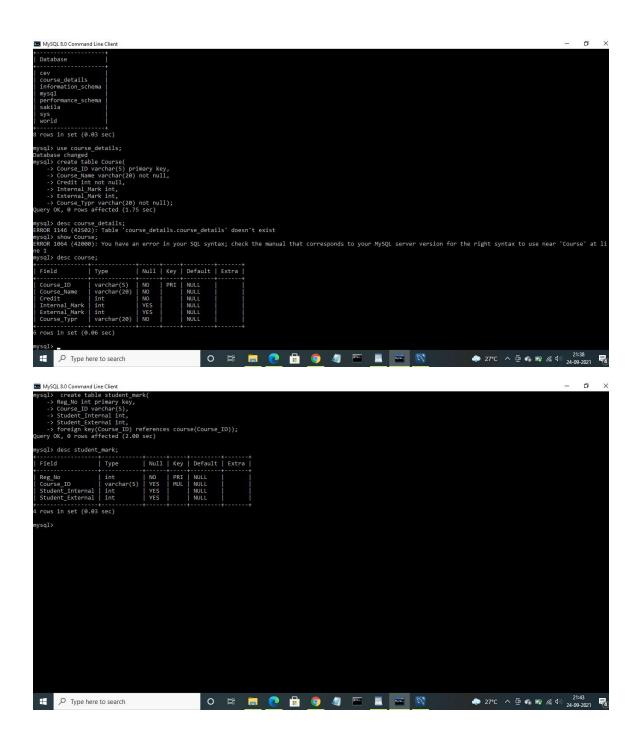
AIM: Create database for the schemas

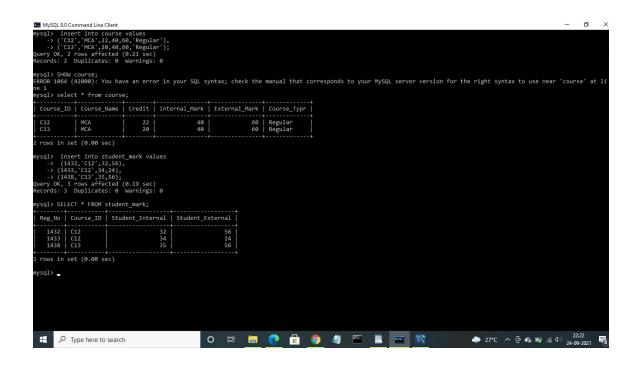
• Course(Course\_ID, Course\_Name, Credit, Semester, Internal\_Mark,

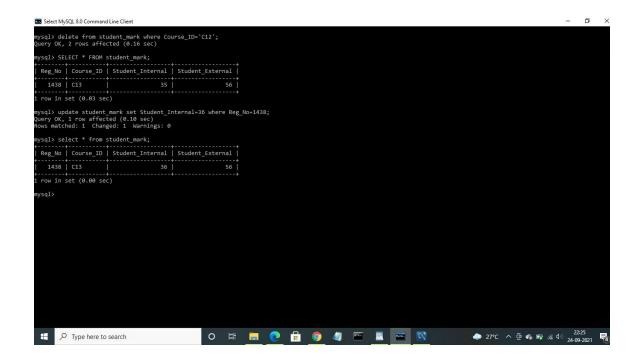
External\_Mark Course\_Type)

Student\_Mark(Reg\_No, Course\_ID, Student\_Internal, Student\_External)

After associating these schemas in to the already created database and perform row insertion, deletion and updation.



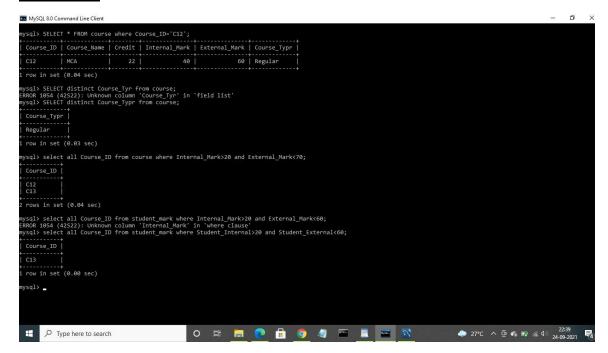




AIM: Data retrieval from the already created database/ Create

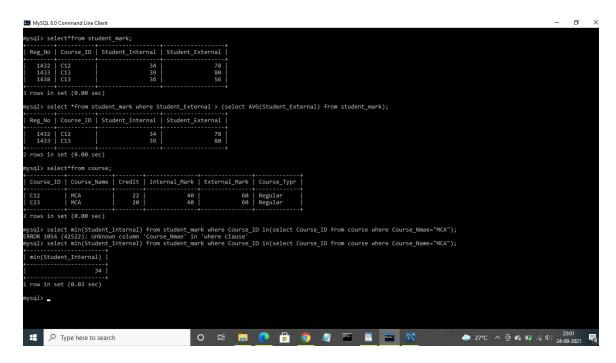
new sample database and necessary adding of data are made then perform the query selections. (Perform simple selection using with comparison operators. Familiarization of keywords such as distinct, all, etc.,)

#### **OUTPUT:**

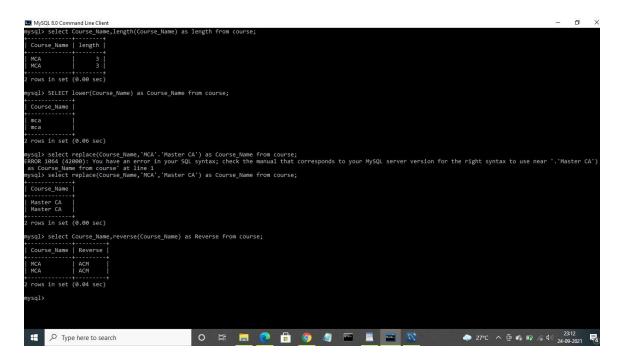


### **EXPERIMENT NO:5**

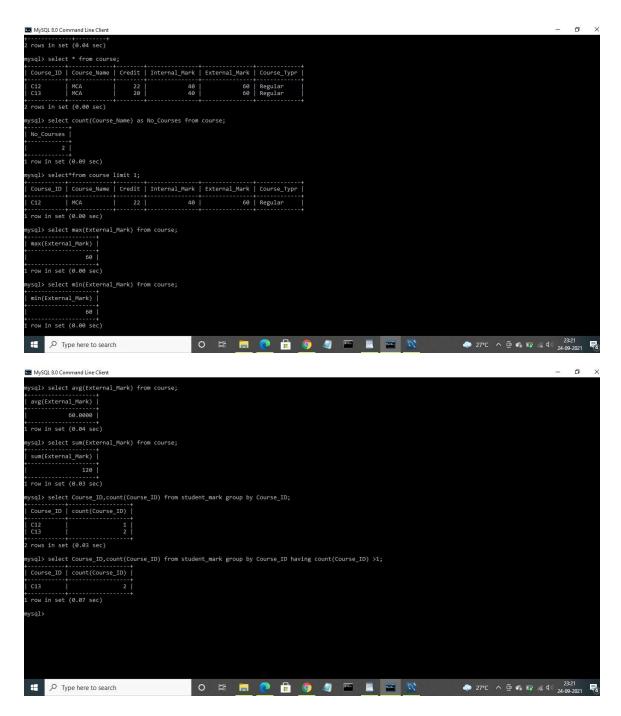
<u>AIM:</u> Data retrieval from the already created database/ Create new sample database and necessary adding of data are made then perform the query selections. (Perform nested query selection using with comparison operators and Logical connectives)



<u>AIM:</u>Data retrieval from the already created database/ Create new sample database and necessary adding of data are made then perform the query selections. (Write queries that familiarize all string operations in SQL.)

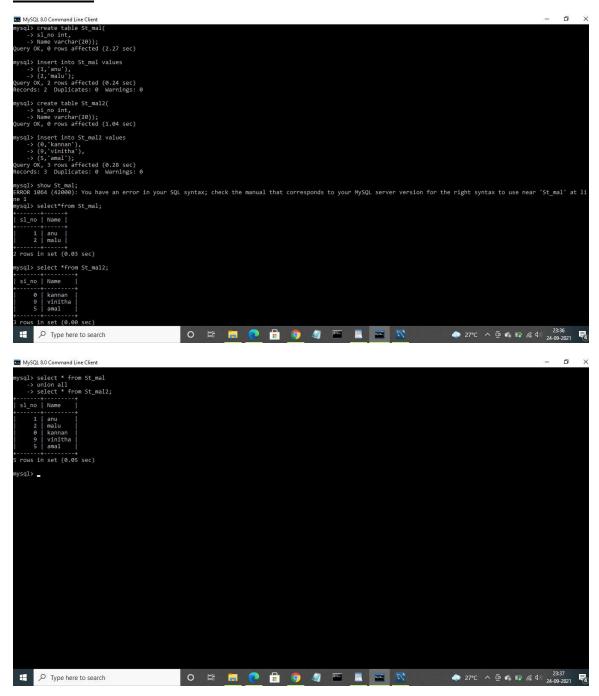


<u>AIM:</u>Data retrieval from the already created database/ Create new sample database and necessary adding of data are made then perform the query selections. (Write sample queries that familiarize all aggregate functions, group by and having clauses in SQL).



<u>AIM</u>:Data retrieval from the already created database/ Create new sample database and necessary adding of data are made then perform the query selections. (Write sample queries that familiarize all set operations in SQL)

#### **OUTPUT:**

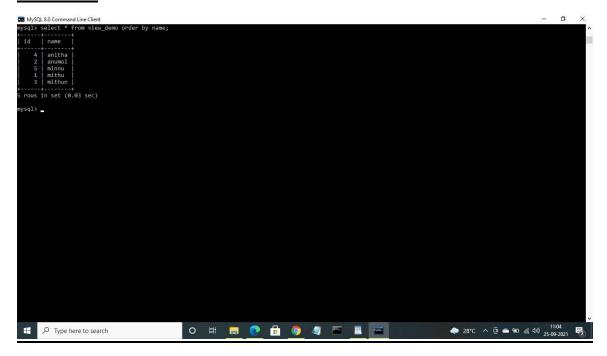


# **EXPERIMENT NO:9**

AIM: Define a view on the already created database and perform

query selection on it(Create sample view and write sample queries on it)

### **OUTPUT:**



### **EXPERIMENT NO:10**

<u>AIM:</u>Develop a tiny database system and do necessary adding of data and data retrieval from that (Create sample database systems such as Department Librarysystem, College canteen system, Hostel system, College store system etc.)

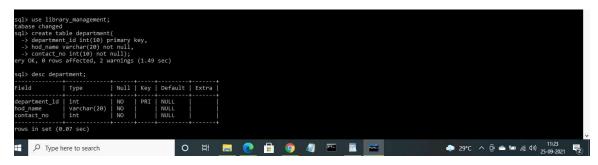
### **OUTPUT:**

### <u>library\_management database:</u>

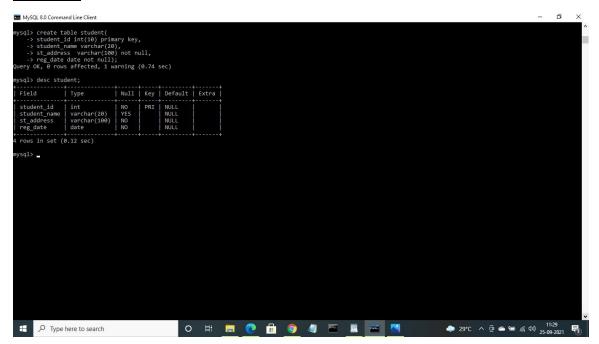
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### **Tables:**

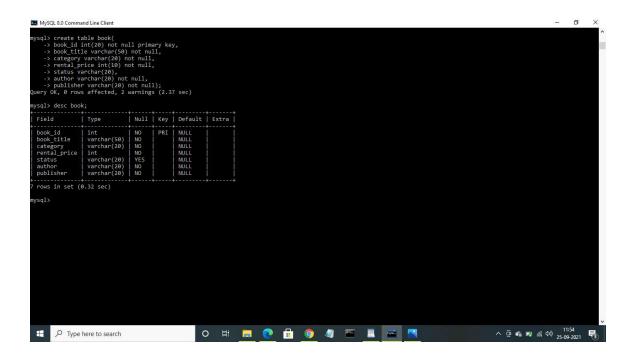
# department



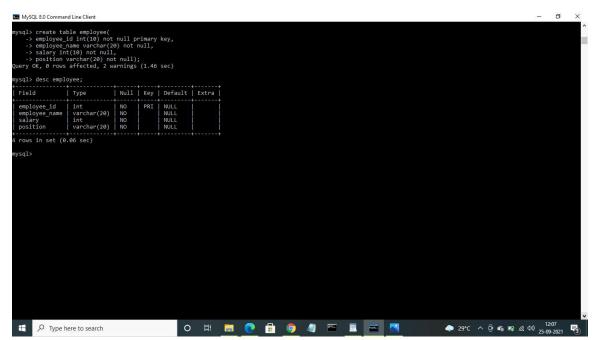
### student



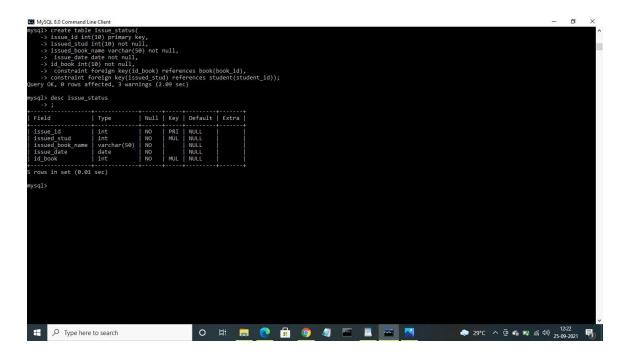
# **book**



# <u>employee</u>



issue status



### return status

