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```
MariaDB [db_mu_schema]> source E:/Rajon/db_mu_uni.sql;
```

```
+-----+
```

```
| Tables_in_db_mu_schema |
```

```
+-----+
```

```
| tbl_academic      |
```

```
| tbl_accounting    |
```

```
| tbl_admission     |
```

```
| tbl_applyaccountant |
```

```
| tbl_batch         |
```

```
| tbl_budget        |
```

```
| tbl_classschedule |
```

```
| tbl_course        |
```

```
| tbl_coursereg     |
```

```
| tbl_department    |
```

```
| tbl_employee      |
```

```
| tbl_exam         |
```

```
| tbl_examresult   |
```

```
| tbl_faculty       |
```

```
| tbl_financialreport |
```

```
| tbl_library       |
```

```
| tbl_offeredcourse |
```

```
| tbl_programme     |
```

```
| tbl_section       |
```

```
| tbl_student      |
| tbl_studentdeposit |
```

```
+-----+
```

21 rows in set (0.001 sec)

```
+-----+-----+-----+-----+-----+
```

```
| Field      | Type      | Null | Key | Default | Extra |
```

```
+-----+-----+-----+-----+-----+
```

```
| studentID   | int(9)    | NO   | PRI | NULL    |      |
```

```
| student_name | varchar(10) | NO   |     | NULL    |      |
```

```
+-----+-----+-----+-----+-----+
```

2 rows in set (0.048 sec)

```
+-----+-----+-----+-----+-----+
```

```
| Field      | Type      | Null | Key | Default | Extra |
```

```
+-----+-----+-----+-----+-----+
```

```
| departmentName | varchar(10) | NO   | PRI | NULL    |      |
```

```
+-----+-----+-----+-----+-----+
```

1 row in set (0.004 sec)

```
+-----+-----+-----+-----+-----+
```

```
| Field      | Type      | Null | Key | Default | Extra |
```

```
+-----+-----+-----+-----+-----+
```

```
| programmeCode | varchar(10) | NO   | PRI | NULL    |      |
```

```
| departmentName | varchar(10) | NO   | MUL | NULL    |      |
```

```
| pr_Name      | varchar(10) | NO   | UNI | NULL    |      |
```

```
+-----+-----+-----+-----+-----+
```

3 rows in set (0.005 sec)

```

+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+
| batchNO    | varchar(10) | NO   | PRI | NULL    |      |
| programmeCode | varchar(10) | NO   | MUL | NULL    |      |
+-----+-----+-----+-----+
2 rows in set (0.005 sec)

```

```

+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+
| sectionNo  | varchar(10) | NO   | PRI | NULL    |      |
| batchNO    | varchar(10) | NO   | MUL | NULL    |      |
+-----+-----+-----+-----+
2 rows in set (0.005 sec)

```

```

+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+
| admissionID | int(9)     | NO   | PRI | NULL    |      |
| sectionNo   | varchar(10) | NO   | MUL | NULL    |      |
| studentID   | int(9)     | NO   | MUL | NULL    |      |
+-----+-----+-----+-----+
3 rows in set (0.005 sec)

```

```

+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+
| admissionID | int(9)     | NO   | MUL | NULL    |      |

```

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studentID	int(9)	NO	MUL	NULL		
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fclt_Name	varchar(10)	NO		NULL	
-----------	-------------	----	--	------	--

```
| cls_Time | time | NO | | NULL | |
```

departmentName	varchar(10)	NO	MUL	NULL	
----------------	-------------	----	-----	------	--

4 rows in set (0.005 sec)

Field	Type	Null	Key	Default	Extra
courseCode	varchar(10)	NO	PRI	NULL	
crs_title	varchar(10)	NO		NULL	
programmeCode	varchar(10)	NO	MUL	NULL	

3 rows in set (0.005 sec)

Field	Type	Null	Key	Default	Extra
offeredCourseId	varchar(10)	NO	PRI	NULL	
courseCode	varchar(10)	NO	MUL	NULL	
facultyId	int(9)	NO	MUL	NULL	
sectionNo	varchar(10)	NO	MUL	NULL	

4 rows in set (0.005 sec)

Field	Type	Null	Key	Default	Extra
courseSemester	varchar(10)	NO	PRI	NULL	
offeredCourseId	varchar(10)	NO	MUL	NULL	

2 rows in set (0.005 sec)

Field	Type	Null	Key	Default	Extra
examName	varchar(10)	NO	PRI	NULL	
exm_time	time	NO		NULL	
exm_Date	date	NO		NULL	
exm_roomNO	int(100)	NO		NULL	
examSession	year(4)	NO	MUL	NULL	
examType	varchar(10)	NO		NULL	

6 rows in set (0.004 sec)

Field	Type	Null	Key	Default	Extra
examName	varchar(10)	NO	MUL	NULL	
courseSemester	varchar(10)	NO	MUL	NULL	

2 rows in set (0.004 sec)

Field	Type	Null	Key	Default	Extra
examName	varchar(10)	NO	MUL	NULL	
studentId	int(9)	NO	MUL	NULL	
accountantType	varchar(10)	NO	MUL	NULL	
dep_amount	int(10)	NO		NULL	
depositType	enum('monthly_fee','semester_fee','transport_fee')	NO		NULL	

5 rows in set (0.004 sec)

Field	Type	Null	Key	Default	Extra
accountantType	varchar(10)	NO	PRI	NULL	

1 row in set (0.005 sec)

Field	Type	Null	Key	Default	Extra
employeeId	bigint(10)	NO	PRI	NULL	
emp_name	varchar(10)	NO		NULL	
emp_type	varchar(10)	NO		NULL	
accountantType	varchar(10)	NO	MUL	NULL	

4 rows in set (0.005 sec)

Field	Type	Null	Key	Default	Extra
BudgetNo	int(10)	NO	PRI	NULL	
bgt_session	year(4)	NO		NULL	
bgt_time	timestamp	NO		current_timestamp()	on update current_timestamp()

3 rows in set (0.005 sec)

Field	Type	Null	Key	Default	Extra
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Field	Type	Null	Key	Default	Extra
FinancialReportNO	int(10)	NO	PRI	NULL	
Fr_type	varchar(10)	NO		NULL	
Fr_expenditure	float(10,2)	NO		NULL	

3 rows in set (0.005 sec)

Field	Type	Null	Key	Default	Extra
BudgetNo	int(10)	NO	MUL	NULL	
FinancialReportNO	int(10)	NO	MUL	NULL	
accountantType	varchar(10)	NO	MUL	NULL	

3 rows in set (0.006 sec)

MariaDB [db_mu_schema]> Ctrl-C -- exit!

Bye

D:\Rajon\New folder\mysql\bin>


```
--CREATE DATABASE db_mu_schema;
--SHOW DATABASES;
--SELECT user(), now(), DATABASE();
--use db_mu_schema;

CREATE TABLE tbl_student
(
    studentID int(9) NOT NULL PRIMARY KEY,
    student_name varchar(10) NOT NULL
);
CREATE TABLE tbl_Department
(
    departmentName varchar(10) NOT NULL PRIMARY KEY,
    facultyId int(9) NOT NULL
);
CREATE TABLE tbl_programme
(
    programmeCode varchar(10) NOT NULL ,
    departmentName varchar(10) NOT NULL,
    pr_Name varchar(10) NOT NULL,
    PRIMARY KEY (programmeCode)
);
CREATE TABLE tbl_batch
(
    batchNO varchar(10) NOT NULL,
    programmeCode varchar(10) NOT NULL,
    PRIMARY KEY (BatchNO)
);
CREATE TABLE tbl_section
(
    sectionNo varchar(10) NOT NULL,
    batchNO varchar(10) NOT NULL,
    PRIMARY KEY (sectionNo)
);
CREATE TABLE tbl_admission
(
```

```

        admissionID int(9) NOT NULL,
        sectionNo varchar(10) NOT NULL,
        studentID int(9) NOT NULL,
        PRIMARY KEY (admissionID)
    );
CREATE TABLE tbl_Academic
(
    admissionID int(9) NOT NULL,
    programmeCode varchar(10) NOT NULL
);
CREATE TABLE tbl_library
(
    libraryCardNo int(9) NOT NULL,
    studentID int(9) NOT NULL,
    PRIMARY KEY (libraryCardNo)
);
CREATE TABLE tbl_faculty
(
    facultyId int(9) NOT NULL,
    departmentName varchar(10) NOT NULL,
    fcilt_Name varchar(10) NOT NULL,
    PRIMARY KEY (facultyId)
);
CREATE TABLE tbl_classShedule
(
    classRoomNO int(100) NOT NULL,
    cls_Time TIME NOT NULL,
    cls_Date DATE NOT NULL,
    departmentName varchar(10) NOT NULL,
    PRIMARY KEY (classRoomNO)
);
CREATE TABLE tbl_course
(
    courseCode varchar(10) NOT NULL,
    crs_title varchar(10) NOT NULL,
    programmeCode varchar(10) NOT NULL,
    PRIMARY KEY (courseCode)
);
CREATE TABLE tbl_offeredCourse
(
    offeredCourseId varchar(10) NOT NULL,
    courseCode varchar(10) NOT NULL,
    facultyId int(9) NOT NULL,
    sectionNo varchar(10) NOT NULL,
    PRIMARY KEY (offeredCourseId)

```

```

);
CREATE TABLE Tbl_courseReg
(
    courseSemester varchar(10) NOT NULL,
    offeredCourseId varchar(10) NOT NULL,
    PRIMARY KEY (courseSemester)
);
CREATE TABLE tbl_exam
(
    examName varchar(10) NOT NULL,
    exm_time TIME NOT NULL,
    exm_Date DATE NOT NULL,
    exm_roomNO int(100) NOT NULL,
    examSession YEAR NOT NULL,
    examType varchar(10) NOT NULL,
    PRIMARY KEY (examName)
);
CREATE TABLE tbl_examResult
(
    examName varchar(10) NOT NULL,
    courseSemester varchar(10) NOT NULL
);
CREATE TABLE tbl_StudentDeposit
(
    examName varchar(10) NOT NULL,
    studentId int(9) NOT NULL,
    accountantType varchar(10) NOT NULL,
    dep_amount INT(10) NOT NULL
);
CREATE TABLE tbl_Accounting
(
    accountantType varchar(10) NOT NULL,
    PRIMARY KEY (accountantType)
);
CREATE TABLE tbl_Employee
(
    employeeId bigint(10) NOT NULL,
    emp_name varchar(10) NOT NULL,
    emp_type varchar(10) NOT NULL,
    accountantType varchar(10) NOT NULL,
    PRIMARY KEY (employeeId)
);
CREATE TABLE tbl_Budget
(
    BudgetNo int(10) NOT NULL,

```

```

    bgt_session YEAR NOT NULL,
    bgt_time TIMESTAMP NOT NULL,
    PRIMARY KEY (BudgetNo)
);
CREATE TABLE tbl_FinancialReport
(
    FinancialReportNO int(10) NOT NULL,
    Fr_type varchar(10) NOT NULL,
    Fr_expenche float(10,2) NOT NULL,
    PRIMARY KEY (FinancialReportNO)
);
CREATE TABLE tbl_ApplyAccountant
(
    accountantType varchar(10) NOT NULL,
    BudgetNo int(10) NOT NULL,
    FinancialReportNO int(10) NOT NULL
);
--REFERENTIAL INTEGRITY CONSTRAINTS-----

ALTER TABLE tbl_faculty
ADD constraint `FK_tbl_faculty_CREATE TABLE tbl_Department`
FOREIGN KEY (departmentName) REFERENCES tbl_Department(departmentName)
ON DELETE NO ACTION
ON UPDATE CASCADE;

ALTER TABLE tbl_programme
ADD constraint `FK_tbl_programme_tbl_Department`
FOREIGN KEY (departmentName) REFERENCES tbl_Department(departmentName)
ON DELETE NO ACTION
ON UPDATE CASCADE;

ALTER TABLE tbl_batch
ADD constraint `FK_tbl_batch_tbl_programme`
FOREIGN KEY (programmeCode) REFERENCES tbl_programme(programmeCode)
ON DELETE NO ACTION
ON UPDATE CASCADE;

ALTER TABLE tbl_section
ADD constraint `FK_tbl_section_tbl_batch`
FOREIGN KEY (BatchNO) REFERENCES tbl_batch(BatchNO)
ON DELETE NO ACTION
ON UPDATE CASCADE;

ALTER TABLE tbl_admission
ADD constraint `FK_tbl_admission_tbl_student`

```

```
FOREIGN KEY (studentID) REFERENCES tbl_student(studentID)
ON DELETE NO ACTION
ON UPDATE CASCADE;

ALTER TABLE tbl_admission
ADD constraint `FK_tbl_admission_tbl_section`
FOREIGN KEY (sectionNo) REFERENCES tbl_section(sectionNo)
ON DELETE NO ACTION
ON UPDATE CASCADE;

ALTER TABLE tbl_Academic
ADD constraint `FK_tbl_Academic_tbl_admission`
FOREIGN KEY (admissionID) REFERENCES tbl_admission(admissionID)
ON DELETE NO ACTION
ON UPDATE CASCADE;

ALTER TABLE tbl_Academic
ADD constraint `FK_tbl_Academic_tbl_programme`
FOREIGN KEY (programmeCode) REFERENCES tbl_programme(programmeCode)
ON DELETE NO ACTION
ON UPDATE CASCADE;

ALTER TABLE tbl_library
ADD constraint `FK_tbl_library_tbl_student`
FOREIGN KEY (studentID) REFERENCES tbl_student(studentID)
ON DELETE NO ACTION
ON UPDATE CASCADE;

ALTER TABLE tbl_classShedule
ADD constraint `FK_tbl_classShedule_tbl_Department`
FOREIGN KEY (departmentName) REFERENCES tbl_Department(departmentName)
ON DELETE NO ACTION
ON UPDATE CASCADE;

ALTER TABLE tbl_course
ADD constraint `FK_tbl_course_tbl_programme`
FOREIGN KEY (programmeCode) REFERENCES tbl_programme(programmeCode)
ON DELETE NO ACTION
ON UPDATE CASCADE;

ALTER TABLE tbl_offeredCourse
ADD constraint `FK_tbl_offeredCourse_tbl_course`
FOREIGN KEY (courseCode) REFERENCES tbl_course(courseCode)
ON DELETE NO ACTION
ON UPDATE CASCADE;
```

```
ALTER TABLE tbl_offeredCourse
ADD constraint `FK_tbl_offeredCourse_tbl_faculty`
FOREIGN KEY (facultyId) REFERENCES tbl_faculty(facultyId)
ON DELETE NO ACTION
ON UPDATE CASCADE;

ALTER TABLE tbl_offeredCourse
ADD constraint `FK_tbl_offeredCourse_tbl_section`
FOREIGN KEY (sectionNo) REFERENCES tbl_section(sectionNo)
ON DELETE NO ACTION
ON UPDATE CASCADE;

ALTER TABLE Tbl_courseReg
ADD constraint `FK_Tbl_courseReg_tbl_offeredCourse`
FOREIGN KEY (offeredCourseId) REFERENCES tbl_offeredCourse(offeredCourseId)
ON DELETE NO ACTION
ON UPDATE CASCADE;

ALTER TABLE tbl_examResult
ADD constraint `FK_tbl_examResult_Tbl_courseReg`
FOREIGN KEY (courseSemester) REFERENCES Tbl_courseReg(courseSemester)
ON DELETE NO ACTION
ON UPDATE CASCADE;

ALTER TABLE tbl_examResult
ADD constraint `FK_tbl_examResult_tbl_exam`
FOREIGN KEY (examName) REFERENCES tbl_exam(examName)
ON DELETE NO ACTION
ON UPDATE CASCADE;

ALTER TABLE tbl_StudentDeposit
ADD constraint `FK_tbl_StudentDeposit_tbl_exam`
FOREIGN KEY (examName) REFERENCES tbl_exam(examName)
ON DELETE NO ACTION
ON UPDATE CASCADE;

ALTER TABLE tbl_StudentDeposit
ADD constraint `FK_tbl_StudentDeposit_tbl_Accounting`
FOREIGN KEY (accountantType) REFERENCES tbl_Accounting(accountantType)
ON DELETE NO ACTION
ON UPDATE CASCADE;

ALTER TABLE tbl_StudentDeposit
ADD constraint `FK_tbl_StudentDeposit_tbl_student`
```

```

FOREIGN KEY (studentId) REFERENCES tbl_student(studentId)
ON DELETE NO ACTION
ON UPDATE CASCADE;

ALTER TABLE tbl_Employee
ADD constraint `FK_tbl_Employee_tbl_Accounting`
FOREIGN KEY (accountantType) REFERENCES tbl_Accounting(accountantType)
ON DELETE NO ACTION
ON UPDATE CASCADE;

ALTER TABLE tbl_ApplyAccountant
ADD constraint `FK_tbl_ApplyAccountant_tbl_Budget`
FOREIGN KEY (BudgetNo) REFERENCES tbl_Budget(BudgetNo)
ON DELETE NO ACTION
ON UPDATE CASCADE;

ALTER TABLE tbl_ApplyAccountant
ADD constraint `FK_tbl_ApplyAccountant_tbl_FinancialReport`
FOREIGN KEY (FinancialReportNO) REFERENCES tbl_FinancialReport(FinancialReportNO)
ON DELETE NO ACTION
ON UPDATE CASCADE;

ALTER TABLE tbl_ApplyAccountant
ADD constraint `FK_tbl_ApplyAccountant_tbl_Accounting`
FOREIGN KEY (accountantType) REFERENCES tbl_Accounting(accountantType)
ON DELETE NO ACTION
ON UPDATE CASCADE;

--UNIQUE CONSTRAINT-----

ALTER TABLE tbl_programme
ADD CONSTRAINT constraint_name UNIQUE (pr_Name);

ALTER TABLE tbl_exam
ADD CONSTRAINT constraint_name UNIQUE (examSession, examType);

--ENUMERATION FIELD-----

ALTER TABLE tbl_StudentDeposite
ADD column depositType enum('monthly_fee', 'semester_fee', 'transport_fee') NOT
NULL;

show tables;
describe tbl_student;

```

```
describe tbl_Department;  
describe tbl_programme;  
describe tbl_batch;  
describe tbl_section;  
describe tbl_admission;  
describe tbl_Academic;  
describe tbl_library;  
describe tbl_faculty;  
describe tbl_classShedule;  
describe tbl_course;  
describe tbl_offeredCourse;  
describe Tbl_courseReg;  
describe tbl_exam;  
describe tbl_examResult;  
describe tbl_StudentDeposit;  
describe tbl_Accounting;  
describe tbl_Employee;  
describe tbl_Budget;  
describe tbl_FinancialReport;  
describe tbl_ApplyAccountant;
```