

Object Oriented Programming with Java Project

Topic :- Education Institution Registration

Subject Code :- CS594D

Group No :- 2

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A CKNOWLEDGEMENT

We take this occasion to thank God, almighty for blessing us with his grace and taking our endeavor to a successful culmination. We extend our sincere and heartfelt thanks to our esteemed guide, and we also take this opportunity to express a deep sense of gratitude to our course teacher VARSHA PODDAR, SUBARNA ROY mam for cordial support, valuable suggestions and guidance. We extend our sincere thanks to our parents for give us suggestions and guidance.

STUDENT’S SIGNATURE

SOUMYAK PAUL DEBJIT CHATTOPADHYAY

PROBLEM STA TEMENT

A PROJ ECT ON “EDUCATION INSTITUTION REGISTRATION” BASED ON OBJECT ORIENTED PROGRAMMING USING JAVA DEVELOPED ON THE ANDROID PLATFORM

PROJ ECT IS DONE BY STUDENTS OF CSE­3D

NAME: SOUMYAK PAUL ROLL NO.:- 3

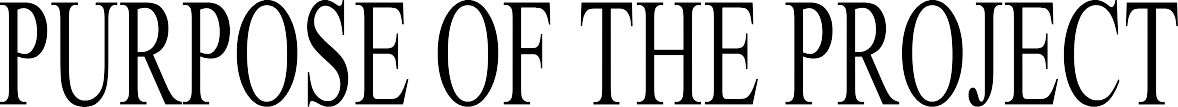
NAME: DEBJIT CHATTOPADHYAY

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Module Description

The following components are used in the Project :-

1. Activities:-



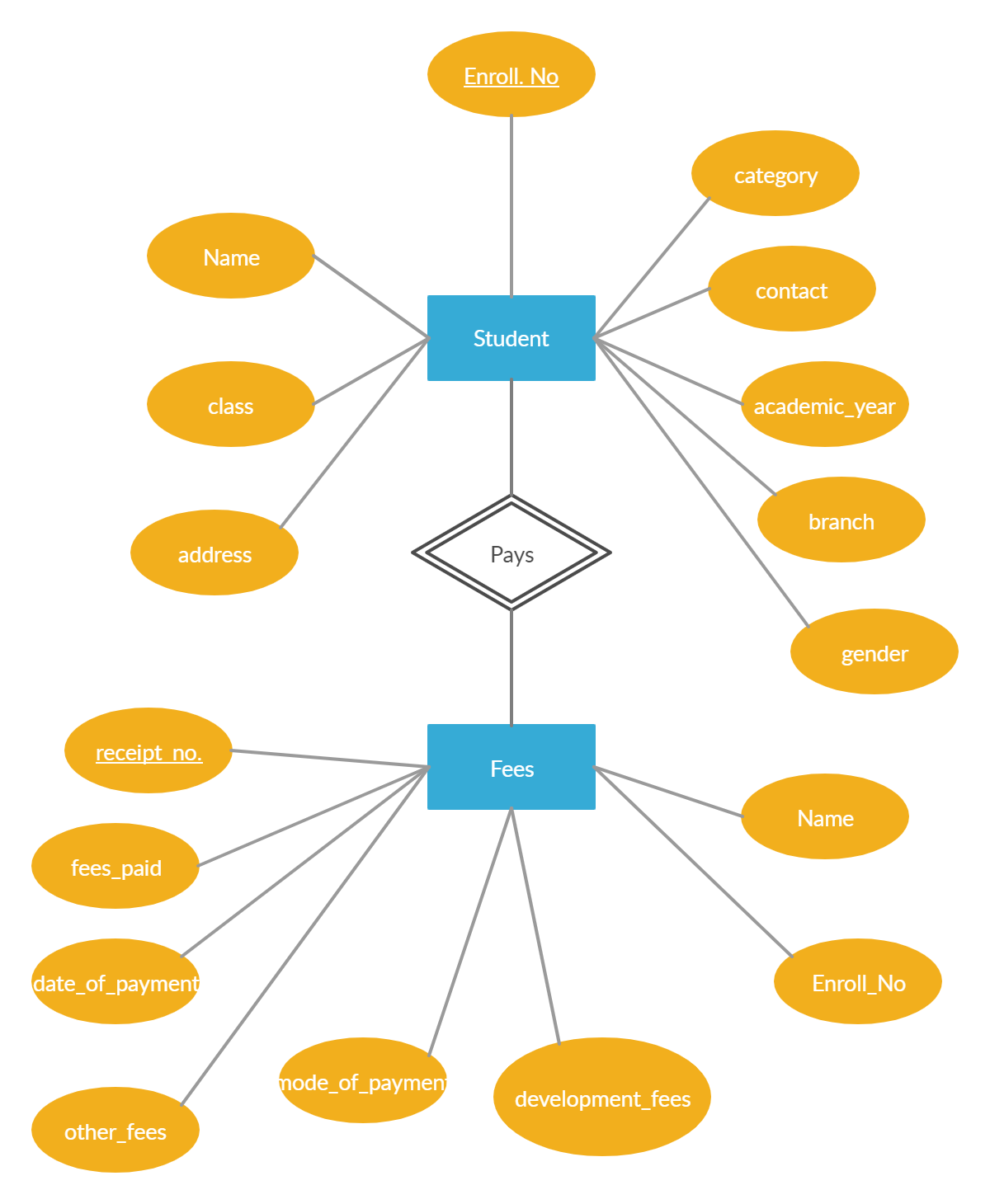
The aim of this project is to develop a system that can handle & manage the activities involved in the finance department of any educational institution in an efficient & reliable way. Less managing personnel & easy searching availability & user profile managing are major goals in this project. Develop a system that can replace the manual fees managing system.

* Develop a database which stores student details & their respective fees details.
* Give reliable search facility for the users.
* Administrator should have logins.
* Create an easy to understand user friendly environment.



Fees Management System is an application which refers to fees systems which are generally small or medium in size. It is used by accountant to manage the fees using a computerized system where he/she can record various transactions like adding new student records, recording new payment entry, delete certain students from the database, delete any payment records if necessary. With this computerized system there will be no loss of fees record or member record which generally happens when a non computerized system is used. All these modules are able to help accountant to manage the finance department with more convenience and in a more efficient way as compared to fees systems which are not computerized.

**ER DIAGRAM**

****

**CODING SECTION –SQL QUERIES**

Enter passwor d: \*\*\*\*\*

Welcome to the Mar iaDB monitor . Commands end with ; or \g. Your Mar iaDB connection id is 9

Ser ver ver sion: 10.4.7­Mar iaDB mar iadb.or g binar y distr ibution

Copyr ight (c) 2000, 2018, Or acle, Mar iaDB Cor por ation Ab and other s.

Type ' help;' or ' \h' for help. Type ' \c' to clear the cur r ent input statement.

Mar iaDB [(none)]> show databases;

+­­­­­­­­­­­­­­­­­­­­+

| Database |

+­­­­­­­­­­­­­­­­­­­­+

| infor mation\_schema |

| mysql |

| per for mance\_schema |

| test |

+­­­­­­­­­­­­­­­­­­­­+

4 r ows in set (0.201 sec)

Mar iaDB [(none)]> use test; Database changed Mar iaDB [test]>

Mar iaDB [test]> show tables; Empty set (0.048 sec)

Mar iaDB [test]> show databases;

+­­­­­­­­­­­­­­­­­­­­+

| Database |

+­­­­­­­­­­­­­­­­­­­­+

| infor mation\_schema |

| mysql |

| per for mance\_schema |

| test |

+­­­­­­­­­­­­­­­­­­­­+

1. **r ows in set (0.001 sec)**

Mar iaDB [test]> cr eate database Libr ar y; Quer y OK, 1 r ow affected (0.122 sec)

Mar iaDB [test]> show databases;

+­­­­­­­­­­­­­­­­­­­­+

| Database |

+­­­­­­­­­­­­­­­­­­­­+

| infor mation\_schema |

| libr ar y |

| mysql |

| per for mance\_schema |

| test |

+­­­­­­­­­­­­­­­­­­­­+

1. **r ows in set (0.001 sec)**

Mar iaDB [test]> use Libr ar y; Database changed

Mar iaDB [Libr ar y]> show tables; Empty set (0.001 sec)

Mar iaDB [Libr ar y]> cr eate table book(ISBN int(30),title var char (50),author var char (30),publication var char (30),year year ,pr ice int(5),availability bool);

Quer y OK, 0 r ows affected (1.001 sec)

Mar iaDB [Libr ar y]> show tables;

+­­­­­­­­­­­­­­­­­­­+

| Tables\_in\_libr ar y |

+­­­­­­­­­­­­­­­­­­­+

| book |

+­­­­­­­­­­­­­­­­­­­+

1 r ow in set (0.001 sec)

Mar iaDB [Libr ar y]> show details book;

ERROR 1064 (42000): You have an er r or in your SQL syntax; check the manual that cor r esponds to your Mar iaDB ser ver ver sion for the r ight syntax to use near ' details book' at line 1

Mar iaDB [Libr ar y]> descr ibe book;

+­­­­­­­­­­­­­­+­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| Field | Type | Null | Key | Default | Extr a |

+­­­­­­­­­­­­­­+­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| ISBN | int(30) | YES | | NULL | |

| title | var char (50) | YES | | NULL | |

| author | var char (30) | YES | | NULL | |

| publication | var char (30) | YES | | NULL | |

| year | year (4) | YES | | NULL | |

| pr ice | int(5) | YES | | NULL | |

| availability | tinyint(1) | YES | | NULL | |

+­­­­­­­­­­­­­­+­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

7 r ows in set (0.214 sec)

Mar iaDB [Libr ar y]> cr eate table r eader (ID int(10),name var char (30),addr ess var char (100),contact var char (15));

Quer y OK, 0 r ows affected (0.238 sec)

Mar iaDB [Libr ar y]> show tables

­> ;

+­­­­­­­­­­­­­­­­­­­+

| Tables\_in\_libr ar y |

+­­­­­­­­­­­­­­­­­­­+

| book |

| r eader |

+­­­­­­­­­­­­­­­­­­­+

2 r ows in set (0.001 sec)

Mar iaDB [Libr ar y]> descr ibe book;

+­­­­­­­­­­­­­­+­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| Field | Type | Null | Key | Default | Extr a |

+­­­­­­­­­­­­­­+­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| ISBN | int(30) | YES | | NULL | |

| title | var char (50) | YES | | NULL | |

| author | var char (30) | YES | | NULL | |

| publication | var char (30) | YES | | NULL | |

| year | year (4) | YES | | NULL | |

| pr ice | int(5) | YES | | NULL | |

| availability | tinyint(1) | YES | | NULL | |

+­­­­­­­­­­­­­­+­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

7 r ows in set (0.083 sec)

Mar iaDB [Libr ar y]> descr ibe r eader ;

+­­­­­­­­­+­­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| Field | Type | Null | Key | Default | Extr a |

+­­­­­­­­­+­­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| ID | int(10) | YES | | NULL | |

| name | var char (30) | YES | | NULL | |

| addr ess | var char (100) | YES | | NULL | |

| contact | var char (15) | YES | | NULL | |

+­­­­­­­­­+­­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

4 r ows in set (0.042 sec)

Mar iaDB [Libr ar y]> Mar iaDB [Libr ar y]> Mar iaDB [Libr ar y]> Mar iaDB [Libr ar y]>

Mar iaDB [libr ar y]> show tables;

+­­­­­­­­­­­­­­­­­­­+

| Tables\_in\_libr ar y |

+­­­­­­­­­­­­­­­­­­­+

| book |

| r eader |

+­­­­­­­­­­­­­­­­­­­+

2 r ows in set (0.070 sec)

Mar iaDB [libr ar y]> cr eate table;

ERROR 1064 (42000): You have an er r or in your SQL syntax;

check the manual that cor r esponds to your Mar iaDB ser ver ver sion for the r ight syntax to use near ' ' at line 1

Mar iaDB [libr ar y]> descr ibe book;

+­­­­­­­­­­­­­­+­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| Field | Type | Null | Key | Default | Extr a |

+­­­­­­­­­­­­­­+­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| ISBN | int(30) | YES | | NULL | |

| title | var char (50) | YES | | NULL | |

| author | var char (30) | YES | | NULL | |

| publication | var char (30) | YES | | NULL | |

| year | year (4) | YES | | NULL | |

| pr ice | int(5) | YES | | NULL | |

| availability | tinyint(1) | YES | | NULL | |

+­­­­­­­­­­­­­­+­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

7 r ows in set (0.116 sec)

Mar iaDB [libr ar y]> descr ibe r eader ;

+­­­­­­­­­+­­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| Field | Type | Null | Key | Default | Extr a |

+­­­­­­­­­+­­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| ID | int(10) | YES | | NULL | |

| name | var char (30) | YES | | NULL | |

| addr ess | var char (100) | YES | | NULL | |

| contact | var char (15) | YES | | NULL | |

+­­­­­­­­­+­­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

4 r ows in set (0.031 sec)

Mar iaDB [libr ar y]> cr eate table r ecor d(r ecor d\_ID int(15) pr imar y key,ISBN int(30),issue\_date date,due\_date date,due bool,r etur n\_date date);

Quer y OK, 0 r ows affected (0.418 sec)

Mar iaDB [libr ar y]> descr ibe r ecor d;

+­­­­­­­­­­­­­+­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| Field | Type | Null | Key | Default | Extr a |

+­­­­­­­­­­­­­+­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| r ecor d\_ID | int(15) | NO | PRI | NULL | |

| ISBN | int(30) | YES | | NULL | |

| issue\_date | date | YES | | NULL | |

| due\_date | date | YES | | NULL | |

| due | tinyint(1) | YES | | NULL | |

| r etur n\_date | date | YES | | NULL | |

+­­­­­­­­­­­­­+­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

6 r ows in set (0.090 sec)

Mar iaDB [libr ar y]> cr eate table admin(name var char (30),user \_id var char (20) pr imar y key,passwor d var char (20),contact var char (15),adr ess var char (100));

Quer y OK, 0 r ows affected (0.209 sec)

Mar iaDB [libr ar y]> descr ibe admin;

+­­­­­­­­­­+­­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| Field | Type | Null | Key | Default | Extr a |

+­­­­­­­­­­+­­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| name | var char (30) | YES | | NULL | |

| user \_id | var char (20) | NO | PRI | NULL | |

| passwor d | var char (20) | YES | | NULL | |

| contact | var char (15) | YES | | NULL | |

| adr ess | var char (100) | YES | | NULL | |

+­­­­­­­­­­+­­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

5 r ows in set (0.095 sec)

Mar iaDB [libr ar y]> alter table r eader

­> add pr imar y key(ID)

­> modify name var char (30) NOT NULL

­> modify addr ess var char (100) NOT NULL

­> modify addr ess var char (15) NOT NULL;

ERROR 1064 (42000): You have an er r or in your SQL syntax; check the manual that cor r esponds to your Mar iaDB ser ver ver sion for the r ight syntax to use near ' modify name var char (30) NOT NULL

modify addr ess var char (100) NOT NULL modify add' at line 3

Mar iaDB [libr ar y]> descr ibe r eader ;

+­­­­­­­­­+­­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| Field | Type | Null | Key | Default | Extr a |

+­­­­­­­­­+­­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| ID | int(10) | YES | | NULL | |

| name | var char (30) | YES | | NULL | |

| addr ess | var char (100) | YES | | NULL | |

| contact | var char (15) | YES | | NULL | |

+­­­­­­­­­+­­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

4 r ows in set (0.034 sec)

Mar iaDB [libr ar y]> alter table r eader ;

Quer y OK, 0 r ows affected (0.071 sec) Recor ds: 0 Duplicates: 0 War nings: 0

Mar iaDB [libr ar y]> alter table r eader

­> ADD PRIMARY KEY(ID);

Quer y OK, 0 r ows affected (0.830 sec) Recor ds: 0 Duplicates: 0 War nings: 0

Mar iaDB [libr ar y]> alter table r eader

­> modify name var char (30) NOT NULL; Quer y OK, 0 r ows affected (0.699 sec) Recor ds: 0 Duplicates: 0 War nings: 0

Mar iaDB [libr ar y]> alter table r eader

­> modify addr ess var char (100) NOT NULL; Quer y OK, 0 r ows affected (0.782 sec)

Recor ds: 0 Duplicates: 0 War nings: 0

Mar iaDB [libr ar y]> alter table r eader

­> modify contact var char (15) NOT NULL; Quer y OK, 0 r ows affected (0.555 sec)

Recor ds: 0 Duplicates: 0 War nings: 0

Mar iaDB [libr ar y]> descr ibe r eader ;

+­­­­­­­­­+­­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| Field | Type | Null | Key | Default | Extr a |

+­­­­­­­­­+­­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| ID | int(10) | NO | PRI | NULL | |

| name | var char (30) | NO | | NULL | |

| addr ess | var char (100) | NO | | NULL | |

| contact | var char (15) | NO | | NULL | |

+­­­­­­­­­+­­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

1. **r ows in set (0.030 sec)**

Mar iaDB [libr ar y]> alter table r eader

­> ADD fine float(5) DEFAULT 0; Quer y OK, 0 r ows affected (0.242 sec) Recor ds: 0 Duplicates: 0 War nings: 0

Mar iaDB [libr ar y]> descr ibe r eader ;

+­­­­­­­­­+­­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| Field | Type | Null | Key | Default | Extr a |

+­­­­­­­­­+­­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| ID | int(10) | NO | PRI | NULL | |

| name | var char (30) | NO | | NULL | |

| addr ess | var char (100) | NO | | NULL | |

| contact | var char (15) | NO | | NULL | |

| fine | float | YES | | 0 | |

+­­­­­­­­­+­­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

1. **r ows in set (0.084 sec)**

Mar iaDB [libr ar y]> descr ibe book;

ERROR 2006 (HY000): MySQL ser ver has gone away No connection. Tr ying to r econnect...

Connection id: 12 Cur r ent database: libr ar y

+­­­­­­­­­­­­­­+­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| Field | Type | Null | Key | Default | Extr a |

+­­­­­­­­­­­­­­+­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| ISBN | int(30) | YES | | NULL | |

| title | var char (50) | YES | | NULL | |

| author | var char (30) | YES | | NULL | |

| publication | var char (30) | YES | | NULL | |

| year | year (4) | YES | | NULL | |

| pr ice | int(5) | YES | | NULL | |

| availability | tinyint(1) | YES | | NULL | |

+­­­­­­­­­­­­­­+­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

7 r ows in set (0.081 sec)

Mar iaDB [libr ar y]> alter table book

­> add pr imar y key(ISBN);

Quer y OK, 0 r ows affected (0.592 sec) Recor ds: 0 Duplicates: 0 War nings: 0

Mar iaDB [libr ar y]> alter table

­> modify title var char (50) NOT NULL

­> modify author var char (30) NOT NULL;

ERROR 1064 (42000): You have an er r or in your SQL syntax; check the manual that cor r esponds to your Mar iaDB ser ver ver sion for the r ight syntax to use near ' var char (50) NOT NULL

modify author var char (30) NOT NULL' at line 2 Mar iaDB [libr ar y]> alter table

­> modify title var char (50) NOT NULL;

ERROR 1064 (42000): You have an er r or in your SQL syntax; check the manual that cor r esponds to your Mar iaDB ser ver ver sion for the r ight syntax to use near ' var char (50) NOT NULL' at line 2

Mar iaDB [libr ar y]> alter table book

­> modify title var char (50) NOT NULL; Quer y OK, 0 r ows affected (0.868 sec) Recor ds: 0 Duplicates: 0 War nings: 0

Mar iaDB [libr ar y]> alter table book

­> modify author var char (30) NOT NULL; Quer y OK, 0 r ows affected (0.632 sec) Recor ds: 0 Duplicates: 0 War nings: 0

Mar iaDB [libr ar y]> alter table book

­> modify publication var char (50) DEFAULT ' Unknown' ; Quer y OK, 0 r ows affected (0.195 sec)

Recor ds: 0 Duplicates: 0 War nings: 0

Mar iaDB [libr ar y]> alter table book

­> modify year year (4) NOT NULL; Quer y OK, 0 r ows affected (0.591 sec)

Recor ds: 0 Duplicates: 0 War nings: 0

Mar iaDB [libr ar y]> alter table book

­> modify pr ice float(5) NOT NULL; Quer y OK, 0 r ows affected (1.005 sec) Recor ds: 0 Duplicates: 0 War nings: 0

Mar iaDB [libr ar y]> alter table book

­> modify availability bool DEFAULT 1; Quer y OK, 0 r ows affected (0.090 sec) Recor ds: 0 Duplicates: 0 War nings: 0

Mar iaDB [libr ar y]> descr ibe book;

+­­­­­­­­­­­­­­+­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| Field | Type | Null | Key | Default | Extr a |

+­­­­­­­­­­­­­­+­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| ISBN | int(30) | NO | PRI | NULL | |

| title | var char (50) | NO | | NULL | |

| author | var char (30) | NO | | NULL | |

| publication | var char (50) | YES | | Unknown | |

| year | year (4) | NO | | NULL | |

| pr ice | float | NO | | NULL | |

| availability | tinyint(1) | YES | | 1 | |

+­­­­­­­­­­­­­­+­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

7 r ows in set (0.031 sec)

Mar iaDB [libr ar y]> descr ibe admin;

+­­­­­­­­­­+­­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| Field | Type | Null | Key | Default | Extr a |

+­­­­­­­­­­+­­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| name | var char (30) | YES | | NULL | |

| user \_id | var char (20) | NO | PRI | NULL | |

| passwor d | var char (20) | YES | | NULL | |

| contact | var char (15) | YES | | NULL | |

| adr ess | var char (100) | YES | | NULL | |

+­­­­­­­­­­+­­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

5 r ows in set (0.036 sec)

Mar iaDB [libr ar y]> alter table admin

­> modify name var char (30) NOT NULL; Quer y OK, 0 r ows affected (0.566 sec) Recor ds: 0 Duplicates: 0 War nings: 0

Mar iaDB [libr ar y]> alter table admin

­> modify passwor d var char (20) NOT NULL; Quer y OK, 0 r ows affected (0.912 sec)

Recor ds: 0 Duplicates: 0 War nings: 0

Mar iaDB [libr ar y]> alter table admin

­> modify contact var char (15) NOT NULL; Quer y OK, 0 r ows affected (0.877 sec) Recor ds: 0 Duplicates: 0 War nings: 0

Mar iaDB [libr ar y]> alter table admin

­> dr op adr ess var char (100);

ERROR 1064 (42000): You have an er r or in your SQL syntax; check the manual that cor r esponds to your Mar iaDB ser ver ver sion for the r ight syntax to use near ' var char (100)' at line 2

Mar iaDB [libr ar y]> alter table admin

­> dr op adr ess;

Quer y OK, 0 r ows affected (0.118 sec) Recor ds: 0 Duplicates: 0 War nings: 0

Mar iaDB [libr ar y]> alter table admin

­> ADD addr ess var char (100) not null; Quer y OK, 0 r ows affected (0.134 sec) Recor ds: 0 Duplicates: 0 War nings: 0

Mar iaDB [libr ar y]> descr ibe admin;

+­­­­­­­­­­+­­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| Field | Type | Null | Key | Default | Extr a |

+­­­­­­­­­­+­­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| name | var char (30) | NO | | NULL | |

| user \_id | var char (20) | NO | PRI | NULL | |

| passwor d | var char (20) | NO | | NULL | |

| contact | var char (15) | NO | | NULL | |

| addr ess | var char (100) | NO | | NULL | |

+­­­­­­­­­­+­­­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

1. **r ows in set (0.031 sec)**

Mar iaDB [libr ar y]> descr ibe r ecor d;

+­­­­­­­­­­­­­+­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| Field | Type | Null | Key | Default | Extr a |

+­­­­­­­­­­­­­+­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

| r ecor d\_ID | int(15) | NO | PRI | NULL | |

| ISBN | int(30) | YES | | NULL | |

| issue\_date | date | YES | | NULL | |

| due\_date | date | YES | | NULL | |

| due | tinyint(1) | YES | | NULL | |

| r etur n\_date | date | YES | | NULL | |

+­­­­­­­­­­­­­+­­­­­­­­­­­­+­­­­­­+­­­­­+­­­­­­­­­+­­­­­­­+

1. **r ows in set (0.033 sec)**

Mar iaDB [libr ar y]> alter table r ecor d

­> add for eign key(ISBN) r efer ences book(ISBN); Quer y OK, 0 r ows affected (0.838 sec)

Recor ds: 0 Duplicates: 0 War nings: 0

Mar iaDB [libr ar y]> alter table r ecor d

­> modify issue\_date date NOT NULL; Quer y OK, 0 r ows affected (0.611 sec) Recor ds: 0 Duplicates: 0 War nings: 0

Mar iaDB [libr ar y]> alter table r ecor d

­> modify due tinyint(1) default 0;

Quer y OK, 0 r ows affected (0.128 sec) Recor ds: 0 Duplicates: 0 War nings: 0

Mar iaDB [libr ar y]> alter table r ecor d

­> add bor r ower \_id int(10) for eign key r efer ences r eader (ID); Mar iaDB [libr ar y]> alter table r ecor d

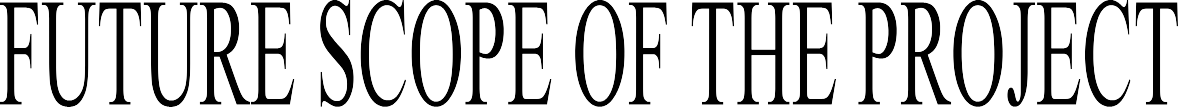
­> add bor r ower \_id int(10);

Quer y OK, 0 r ows affected (0.132 sec) Recor ds: 0 Duplicates: 0 War nings: 0

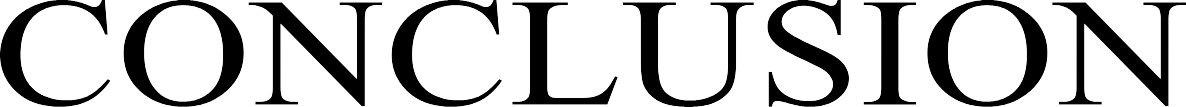
Mar iaDB [libr ar y]> alter table r ecor d

­> add for eign key(bor r ower \_id) r efer ences r eader (ID); Quer y OK, 0 r ows affected (1.225 sec)

Recor ds: 0 Duplicates: 0 War nings: 0



We have much scope for developing our Application. We can make this application as Server based application. In our application we don’t have student’s interaction to this application. We can make this happen in future. We can make this application as an android application which is very helpful to the user and the library authority.



This project is only a console implementation of the fees management system. Improvement can be done by explicitly implementing server and client version of the system along with a interactive GUI.

However to make the concept clear about how databases work, this implementation is sufficient.

**REMARKS**

**TEACHER’S SIGNATURE**