The Book Spot

LIBRARY MANAGEMENT SYSTEM
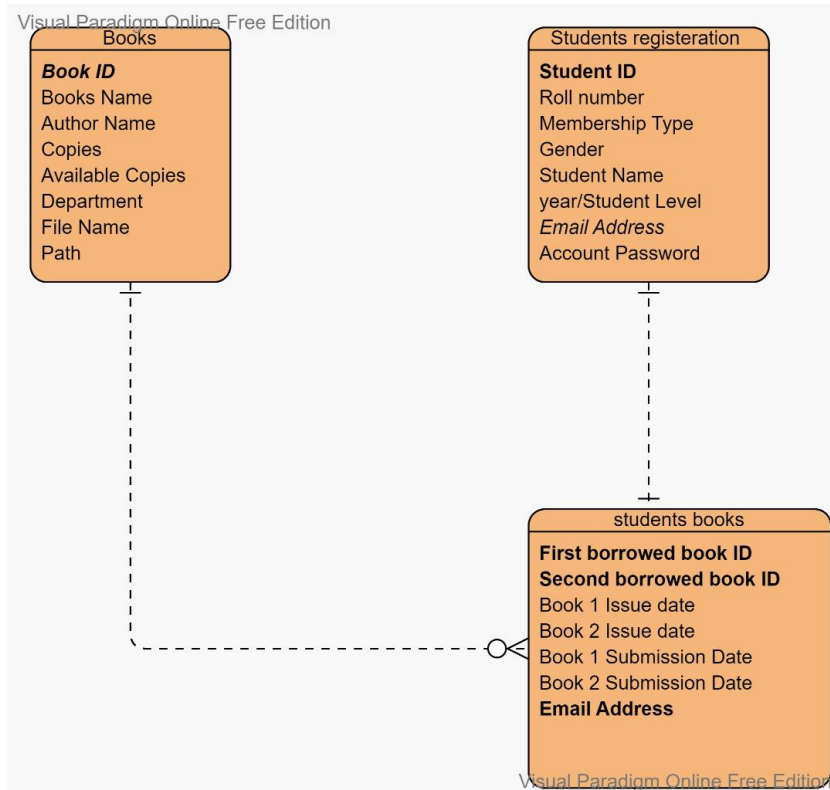
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Data Dictionary

TABLE NAME	ATTRIBUTES	CONTENT/DESCRIPTION	TYPE	PK/FK	FK REFFERECNCE
		Library Management System Data Dictionary			
BOOKS	B_ID	Book's ID	VARCHAR	PK	
	BOOKSNAME	Books name	VARCHAR		
	AUTHORNAME	Author's name	VARCHAR		
	COPIES	Number of book's copies	VARCHAR		
	AVL-CPY	Number of avalible copies	INT		
	DEPT	Department to which the books is related	VARCHAR		
	FILE-NAME	The book's file name	VARCHAR		
	PATH	The file's location	VARCHAR		
STUDENT REGISTERATION	ID	student's ID	INT	PK	
	ROLL	Student's college Roll Number	VARCHAR		
	TYPE	membership type	VARCHAR		
	GENDER	student gender	VARCHAR		
	NAME	student name	VARCHAR		
	DEPT	Department	VARCHAR		
	YEAR	student's level	VARCHAR		
	EMAIL-ID	member's email address	VARCHAR	FK	STUDENTS BOOK
	PASSWORD	student's account password	VARCHAR		
STUDENT BOOKS	EMAIL-ID	member's email address	VARCHAR	PK	
	BOOK-1-ID	ID of the 1st book borrowed by student	VARCHAR		
	BOOK-2-ID	ID of the 2nd book borrowed by student	VARCHAR		
	RECEIVE-DATA-1	issue date of the 1st borrowed book	VARCHAR		
	RECEIVE-DATA-2	issue date of the 2nd borrowed book	VARCHAR		
	BOOK-1	name of the first borrowed book	VARCHAR		
	BOOK-2	name of the second borrowed book	VARCHAR		
	SUBMISSON-DATA-1	submission data 1st borrowed book	VARCHAR		
	SUBMISSION-DATA-2	submission data 2nd borrowed book	VARCHAR		
Views	ADMINS				
	BOOKSNEDDED				
	STUDENTSREGISTRED				

Entity Relationship Diagram

Books

Book ID
Books Name
Author Name
Copies
Available Copies
Department
File Name
Path

Students registeration

Student ID
Roll number
Membership Type
Gender
Student Name
year/Student Level
Email Address
Account Password

students books

First borrowed book ID
Second borrowed book ID
Book 1 Issue date
Book 2 Issue date
Book 1 Submission Date
Book 2 Submission Date
Email Address

Database Queries:

-- MariaDB dump 10.18 Distrib 10.4.16-MariaDB, for Win64 (AMD64)

--

-- Host: localhost   Database: LibraryDB

-- --

-- Server version   10.4.16-MariaDB

```
/*!40101 SET
@OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET
@OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET
@OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!40101 SET NAMES utf8mb4 */;
```

```sql
/*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;
/*!40103 SET TIME_ZONE='+00:00' */;
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS,
UNIQUE_CHECKS=0 */;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS,
FOREIGN_KEY_CHECKS=0 */;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE,
SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;


--
-- Temporary table structure for view `admins`
--

DROP TABLE IF EXISTS `admins`;
/*!50001 DROP VIEW IF EXISTS `admins`*/;
SET @saved_cs_client     = @@character_set_client;
SET character_set_client = utf8;
/*!50001 CREATE TABLE `admins` (
  `id` tinyint NOT NULL,
  `roll` tinyint NOT NULL,
  `gender` tinyint NOT NULL,
  `name` tinyint NOT NULL,
  `dept` tinyint NOT NULL,
  `year` tinyint NOT NULL,
  `emailid` tinyint NOT NULL,
  `password` tinyint NOT NULL
) ENGINE=MyISAM */;
SET character_set_client = @saved_cs_client;


--
```

-- Table structure for table `book`

--

DROP TABLE IF EXISTS `book`;

/*!40101 SET @saved_cs_client   = @@character_set_client */;

/*!40101 SET character_set_client = utf8 */;

CREATE TABLE `book` (

 `b_id` varchar(255) NOT NULL,

 `booksname` varchar(50) NOT NULL,

 `authorname` varchar(50) NOT NULL,

 `copies` varchar(20) NOT NULL,

 `avl_cpy` int(100) NOT NULL,

 `dept` varchar(50) NOT NULL,

 `file_name` varchar(255) NOT NULL,

 `path` varchar(200) NOT NULL,

 PRIMARY KEY (`b_id`),

 UNIQUE KEY `b_id` (`b_id`)

) ENGINE=MyISAM DEFAULT CHARSET=latin1;

/*!40101 SET character_set_client = @saved_cs_client */;

--

-- Dumping data for table `book`

--

LOCK TABLES `book` WRITE;

/*!40000 ALTER TABLE `book` DISABLE KEYS */;

INSERT INTO `book` VALUES

('3939','LGS110','Abdullah','7',3,'Law','3939.pdf','ebooks/3939.pdf'),('4545','The fault in

out stars

','Ajmal','15',11,'PoliticalScience','4545.pdf','ebooks/4545.pdf'),('LAWOF','LG','NOMAN'

,'1',1,'Law','LAWOF.pdf','ebooks/LAWOF.pdf'),('121212','ITC110','COmputer','1',1,'CS','

121212.pdf','ebooks/121212.pdf'),('6000','LGS100','ALi','1',1,'Law','6000.pdf','ebooks/60
00.pdf');
/*!40000 ALTER TABLE `book` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Temporary table structure for view `booksneeded`
--

DROP TABLE IF EXISTS `booksneeded`;
/*!50001 DROP VIEW IF EXISTS `booksneeded`*/;
SET @saved_cs_client   = @@character_set_client;
SET character_set_client = utf8;
/*!50001 CREATE TABLE `booksneeded` (
  `b_id` tinyint NOT NULL,
  `booksname` tinyint NOT NULL,
  `authorname` tinyint NOT NULL,
  `avl_cpy` tinyint NOT NULL
) ENGINE=MyISAM */;
SET character_set_client = @saved_cs_client;

--
-- Table structure for table `student_book`
--

DROP TABLE IF EXISTS `student_book`;
/*!40101 SET @saved_cs_client   = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `student_book` (
  `emailid` varchar(200) NOT NULL,
  `book_1_id` varchar(100) NOT NULL,

```sql
  `book_1` varchar(100) NOT NULL,
  `recive_date_1` varchar(100) NOT NULL,
  `submisson_date_1` varchar(100) NOT NULL,
  `book_2_id` varchar(100) DEFAULT NULL,
  `book_2` varchar(100) DEFAULT NULL,
  `recive_date_2` varchar(100) DEFAULT NULL,
  `submisson_date_2` varchar(100) DEFAULT NULL,
  PRIMARY KEY (`emailid`)
) ENGINE=MyISAM DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;


--
-- Dumping data for table `student_book`
--


LOCK TABLES `student_book` WRITE;
/*!40000 ALTER TABLE `student_book` DISABLE KEYS */;
INSERT INTO `student_book` VALUES ('a@gmail.com','3939','LGS110','18-12-
2021','','4545','The fault in out stars ','18-12-
2021',''),('usman@gmail.com','3939','LGS110','18-12-2021','','4545','The fault in out stars
','18-12-2021',''),('amin@gmail.com','4545','The fault in out stars ','18-12-
2021','','3939','LGS110','18-12-2021','');
/*!40000 ALTER TABLE `student_book` ENABLE KEYS */;
UNLOCK TABLES;


--
-- Table structure for table `student_registration`
--


DROP TABLE IF EXISTS `student_registration`;
/*!40101 SET @saved_cs_client     = @@character_set_client */;
```

```
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `student_registration` (
  `id` int(10) NOT NULL AUTO_INCREMENT,
  `roll` varchar(100) NOT NULL,
  `type` varchar(10) NOT NULL DEFAULT 'student',
  `gender` varchar(10) NOT NULL,
  `name` varchar(50) NOT NULL,
  `dept` varchar(50) NOT NULL,
  `year` varchar(20) NOT NULL,
  `emailid` varchar(50) NOT NULL,
  `password` varchar(20) NOT NULL,
  PRIMARY KEY (`id`),
  UNIQUE KEY `roll` (`roll`)
) ENGINE=MyISAM AUTO_INCREMENT=22 DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;


--
-- Dumping data for table `student_registration`
--

LOCK TABLES `student_registration` WRITE;
/*!40000 ALTER TABLE `student_registration` DISABLE KEYS */;
INSERT INTO `student_registration` VALUES
(1,'001','admin','m','admin','blank','blank','admin001','admin123'),(20,'22','student','m','Qad
irPacha','CS','1st_year','Qadir@gmail.com','q'),(19,'21','student','m','GG','CS','1st_year','G
G@gmail.com','gg'),(18,'sdf','student','m','fssdf','CS','1st_year','sdf@g','sdf'),(17,'asd','stud
ent','m','asdd','CS','1st_year','asd@g','sds'),(16,'69','student','m','QadirPacha','CS','1st_year'
,'Qadir@gmail.com','q'),(15,'1','student','m','QadirPacha','Law','1st_year','Qadir@gmail.co
m','q'),(10,'4040','admin','m','Abdullah','CS','1st_year','abdullahfazli8.af@gmail.com','abd
ullah'),(14,'55','student','m','AMin','CS','1st_year','amin@gmail.com','amin'),(13,'40400','st
udent','m','Usman','CS','1st_year','usman@gmail.com','usman'),(12,'a','student','m','a','CS','
```

1st_year','a@gmail.com','1'),(21,'F1','student','m','Farzan','CS','1st_year','Fazzan@gmail.com','f');

/*!40000 ALTER TABLE `student_registration` ENABLE KEYS */;

UNLOCK TABLES;

--

-- Temporary table structure for view `studentsregistered`

--

DROP TABLE IF EXISTS `studentsregistered`;

/*!50001 DROP VIEW IF EXISTS `studentsregistered`*/;

SET @saved_cs_client   = @@character_set_client;

SET character_set_client = utf8;

/*!50001 CREATE TABLE `studentsregistered` (

  `id` tinyint NOT NULL,

  `roll` tinyint NOT NULL,

  `gender` tinyint NOT NULL,

  `name` tinyint NOT NULL,

  `dept` tinyint NOT NULL,

  `year` tinyint NOT NULL,

  `emailid` tinyint NOT NULL,

  `password` tinyint NOT NULL

) ENGINE=MyISAM */;

SET character_set_client = @saved_cs_client;

--

-- Final view structure for view `admins`

--

/*!50001 DROP TABLE IF EXISTS `admins`*/;

/*!50001 DROP VIEW IF EXISTS `admins`*/;

```sql
/*!50001 SET @saved_cs_client          = @@character_set_client */;
/*!50001 SET @saved_cs_results         = @@character_set_results */;
/*!50001 SET @saved_col_connection     = @@collation_connection */;
/*!50001 SET character_set_client      = utf8mb4 */;
/*!50001 SET character_set_results     = utf8mb4 */;
/*!50001 SET collation_connection      = utf8mb4_general_ci */;
/*!50001 CREATE ALGORITHM=UNDEFINED */
/*!50013 DEFINER=`root`@`localhost` SQL SECURITY DEFINER */
/*!50001 VIEW `admins` AS select `student_registration`.`id` AS
`id`,`student_registration`.`roll` AS `roll`,`student_registration`.`gender` AS
`gender`,`student_registration`.`name` AS `name`,`student_registration`.`dept` AS
`dept`,`student_registration`.`year` AS `year`,`student_registration`.`emailid` AS
`emailid`,`student_registration`.`password` AS `password` from `student_registration`
where `student_registration`.`type` = 'admin' */;
/*!50001 SET character_set_client      = @saved_cs_client */;
/*!50001 SET character_set_results     = @saved_cs_results */;
/*!50001 SET collation_connection      = @saved_col_connection */;


--
-- Final view structure for view `booksneeded`
--

/*!50001 DROP TABLE IF EXISTS `booksneeded`*/;
/*!50001 DROP VIEW IF EXISTS `booksneeded`*/;
/*!50001 SET @saved_cs_client          = @@character_set_client */;
/*!50001 SET @saved_cs_results         = @@character_set_results */;
/*!50001 SET @saved_col_connection     = @@collation_connection */;
/*!50001 SET character_set_client      = utf8mb4 */;
/*!50001 SET character_set_results     = utf8mb4 */;
/*!50001 SET collation_connection      = utf8mb4_general_ci */;
/*!50001 CREATE ALGORITHM=UNDEFINED */
```

```
/*!50013 DEFINER=`root`@`localhost` SQL SECURITY DEFINER */
/*!50001 VIEW `booksneeded` AS select `book`.`b_id` AS `b_id`,`book`.`booksname`
AS `booksname`,`book`.`authorname` AS `authorname`,`book`.`avl_cpy` AS `avl_cpy`
from `book` where `book`.`avl_cpy` < 5 */;
/*!50001 SET character_set_client     = @saved_cs_client */;
/*!50001 SET character_set_results    = @saved_cs_results */;
/*!50001 SET collation_connection      = @saved_col_connection */;


--
-- Final view structure for view `studentsregistered`
--

/*!50001 DROP TABLE IF EXISTS `studentsregistered`*/;
/*!50001 DROP VIEW IF EXISTS `studentsregistered`*/;
/*!50001 SET @saved_cs_client          = @@character_set_client */;
/*!50001 SET @saved_cs_results         = @@character_set_results */;
/*!50001 SET @saved_col_connection     = @@collation_connection */;
/*!50001 SET character_set_client      = utf8mb4 */;
/*!50001 SET character_set_results     = utf8mb4 */;
/*!50001 SET collation_connection      = utf8mb4_general_ci */;
/*!50001 CREATE ALGORITHM=UNDEFINED */
/*!50013 DEFINER=`root`@`localhost` SQL SECURITY DEFINER */
/*!50001 VIEW `studentsregistered` AS select `student_registration`.`id` AS
`id`,`student_registration`.`roll` AS `roll`,`student_registration`.`gender` AS
`gender`,`student_registration`.`name` AS `name`,`student_registration`.`dept` AS
`dept`,`student_registration`.`year` AS `year`,`student_registration`.`emailid` AS
`emailid`,`student_registration`.`password` AS `password` from `student_registration`
where `student_registration`.`type` <> 'admin' */;
/*!50001 SET character_set_client     = @saved_cs_client */;
/*!50001 SET character_set_results    = @saved_cs_results */;
/*!50001 SET collation_connection      = @saved_col_connection */;
```

```sql
/*!40103 SET TIME_ZONE=@OLD_TIME_ZONE */;

/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;
/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;
/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */;
/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;

-- Dump completed on 2021-12-20 12:12:56
```