

DIGITAL LIBRARY DATABASE TABLE CREATION SYNTAX

VER.5.6²⁰⁻⁰⁵⁻¹⁵

LANGUAGE: **MYSQL 5.6.22**

DATABASE: **DIGILIB_DB**

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RUN-1:

```
CREATE TABLE `author_book_rel` (  
  `author_id` int(8) unsigned zerofill NOT NULL COMMENT 'author id-> author  
name',  
  `book_id` int(8) unsigned zerofill NOT NULL COMMENT 'book id-> book',  
  `context` tinyint(1) NOT NULL COMMENT 'context:elib[1],ncert[2]',  
  KEY `fk_author_id2` (`author_id`),  
  KEY `context` (`context`),  
  KEY `book_id` (`book_id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
CREATE TABLE `author_dinfo` (  
  `author_id` int(8) unsigned zerofill NOT NULL COMMENT 'author id->author name',  
  `life` varchar(32) NOT NULL DEFAULT '-N/A-' COMMENT 'life:lived from date to  
date',  
  `bio` text NOT NULL COMMENT 'biography/description',  
  `rating` tinyint(1) NOT NULL DEFAULT '0' COMMENT 'popular rating',  
  `reference_links` tinytext COMMENT 'external links for reference',  
  KEY `fk_author_id` (`author_id`),  
  KEY `rating` (`rating`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
CREATE TABLE `author_info` (  
  `author_id` int(8) unsigned zerofill NOT NULL AUTO_INCREMENT COMMENT 'unique  
author id',  
  `author_name` varchar(128) NOT NULL DEFAULT '' COMMENT 'unique author name',  
  `is_detailed` tinyint(1) NOT NULL DEFAULT '0' COMMENT 'has detailed info',  
  PRIMARY KEY (`author_id`),  
  KEY `author_name` (`author_name`),  
  KEY `is_detailed` (`is_detailed`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
CREATE TABLE `bcat_info` (  
  `bcat_id` int(8) unsigned zerofill NOT NULL AUTO_INCREMENT COMMENT 'unique id  
to broad category ',  
  `bcat_name` varchar(32) NOT NULL DEFAULT '' COMMENT 'name of broad category',  
  `description` varchar(128) DEFAULT NULL COMMENT 'small decription of it',  
  PRIMARY KEY (`bcat_id`),  
  KEY `bcat_name` (`bcat_name`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```

CREATE TABLE `blog_info` (
  `blog_id` int(8) unsigned zerofill NOT NULL AUTO_INCREMENT COMMENT 'unique id
to blog',
  `blog_title` varchar(128) DEFAULT NULL COMMENT 'title of blog',
  `user_id` int(8) unsigned zerofill NOT NULL COMMENT 'user_id->name of author',
  `is_student` tinyint(1) unsigned zerofill NOT NULL COMMENT 'is student or
teacher',
  `description` varchar(256) DEFAULT '' COMMENT 'small description',
  `blog` text COMMENT 'blog',
  `published` timestamp NOT NULL DEFAULT '0000-00-00 00:00:00' ON UPDATE
CURRENT_TIMESTAMP COMMENT 'time of publishing',
  `cont_to` int(8) DEFAULT NULL COMMENT 'if in continuity then previous blog_id ',
  `rating` tinyint(1) unsigned zerofill NOT NULL DEFAULT '0' COMMENT 'popular
rating',
  `scat_id` int(8) unsigned zerofill NOT NULL COMMENT 'small cat id-> category',
  PRIMARY KEY (`blog_id`),
  KEY `fk_scat_id` (`scat_id`),
  KEY `blog_title` (`blog_title`),
  KEY `user_id` (`user_id`),
  KEY `is_student` (`is_student`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

```

```

CREATE TABLE `career_info` (
  `career_id` int(8) unsigned zerofill NOT NULL AUTO_INCREMENT COMMENT 'unique
career id',
  `career_name` varchar(128) NOT NULL DEFAULT '' COMMENT 'name of the career',
  `description` text NOT NULL COMMENT 'decription of the career',
  `reference_links` text COMMENT 'links for further reference',
  PRIMARY KEY (`career_id`),
  KEY `career_name` (`career_name`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

```

```

CREATE TABLE `class_info` (
  `class_id` int(4) unsigned zerofill NOT NULL AUTO_INCREMENT COMMENT 'unique
class id',
  `grade` tinyint(1) unsigned zerofill DEFAULT '0' COMMENT 'grade 1-12',
  `section` tinyint(1) unsigned zerofill NOT NULL DEFAULT '0' COMMENT 'sections
A-H',
  `class_time_table` text COMMENT 'time table of the whole class',
  `thread` mediumtext COMMENT 'class thread',
  `history` longtext COMMENT 'history of classs thread',
  `rating` tinyint(1) unsigned zerofill NOT NULL DEFAULT '0' COMMENT 'popular
rating of class',
  PRIMARY KEY (`class_id`),
  UNIQUE KEY `class_id` (`class_id`),
  KEY `section` (`section`),
  KEY `grade` (`grade`),
  KEY `rating` (`rating`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

```

```

CREATE TABLE `dcq_cat_info` (
  `dcqcat_id` int(8) unsigned zerofill NOT NULL AUTO_INCREMENT COMMENT 'unique
dcqcat_id',
  `dcq_cat` varchar(16) DEFAULT NULL COMMENT 'name of the page: eg elibrary,
author, ncert',
  PRIMARY KEY (`dcqcat_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

```

```
CREATE TABLE `dcq_thread_info` (
  `context_id` int(8) unsigned zerofill NOT NULL COMMENT 'context of the page: eg
author_id for author page',
  `dcqcat_id` int(8) unsigned zerofill NOT NULL COMMENT 'dcq cat of the page',
  `dcq_thread` text NOT NULL COMMENT 'comment thread',
  PRIMARY KEY (`context_id`),
  KEY `fk_dcqid` (`dcqcat_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
CREATE TABLE `develop_authors_userid_rel` (
  `user_id` int(8) unsigned zerofill NOT NULL COMMENT 'user_id->user name',
  `is_student` tinyint(1) NOT NULL COMMENT 'is user student or teacher',
  `develop_id` int(8) unsigned zerofill NOT NULL COMMENT 'develop_id->develop page',
  `post` varchar(32) DEFAULT '' COMMENT 'post of the mod user added',
  KEY `fk_develop_id2` (`develop_id`),
  KEY `user_id` (`user_id`),
  KEY `is_student` (`is_student`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
CREATE TABLE `develop_info` (
  `develop_id` int(11) unsigned NOT NULL AUTO_INCREMENT COMMENT 'unique app id',
  `develop_title` varchar(64) NOT NULL DEFAULT '' COMMENT 'title of app',
  `develop_description` text COMMENT 'description of the app',
  `published` timestamp NOT NULL DEFAULT '0000-00-00 00:00:00' ON UPDATE
CURRENT_TIMESTAMP COMMENT 'time of publishing',
  `user_id` int(8) unsigned zerofill NOT NULL COMMENT 'user id->of publisher',
  `is_student` tinyint(1) unsigned zerofill NOT NULL DEFAULT '1' COMMENT 'is
student or teacher',
  `thread_id` int(8) unsigned zerofill NOT NULL COMMENT 'thread_id->thread
related',
  `status` tinyint(1) unsigned zerofill NOT NULL COMMENT 'status:open or closed',
  `rating` tinyint(1) unsigned zerofill NOT NULL COMMENT 'popular rating',
  `scat_id` int(8) unsigned zerofill NOT NULL COMMENT 'scat_id->small cat of
app',
  PRIMARY KEY (`develop_id`),
  KEY `fk_scat_id3` (`scat_id`),
  KEY `fk_thread_id2` (`thread_id`),
  KEY `develop_title` (`develop_title`),
  KEY `rating` (`rating`),
  KEY `status` (`status`)
) ENGINE=InnoDB AUTO_INCREMENT=2 DEFAULT CHARSET=utf8;
```

```
CREATE TABLE `develop_links` (
  `href` text NOT NULL COMMENT 'link to the file',
  `develop_id` int(8) unsigned zerofill NOT NULL COMMENT 'develop id-> app',
  `server_id` int(4) unsigned zerofill NOT NULL COMMENT 'server id->server',
  KEY `fk_server_id3` (`server_id`),
  KEY `fk_develop_id` (`develop_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
CREATE TABLE `develop_server_info` (
  `server_id` int(4) unsigned zerofill NOT NULL AUTO_INCREMENT COMMENT 'unique
server id',
  `server_name` varchar(32) NOT NULL DEFAULT '' COMMENT 'name of the server',
  `server_url` varchar(128) NOT NULL DEFAULT '' COMMENT 'address of server',
  `server_description` tinytext COMMENT 'description of server',
```

```
PRIMARY KEY (`server_id`),  
KEY `server_name` (`server_name`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
CREATE TABLE `exam_info` (  
  `exam_id` int(8) unsigned zerofill NOT NULL AUTO_INCREMENT COMMENT 'unique exam  
id',  
  `exam_name` varchar(128) NOT NULL DEFAULT '' COMMENT 'name of exam',  
  `description` text NOT NULL COMMENT 'description of exam: requirements and  
all',  
  `reference_links` text COMMENT 'links to refer further',  
  PRIMARY KEY (`exam_id`),  
  KEY `exam_name` (`exam_name`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
CREATE TABLE `genre_book_rel` (  
  `book_id` int(8) unsigned zerofill NOT NULL COMMENT 'book_id->name of lib  
book',  
  `genre_id` int(8) unsigned zerofill NOT NULL COMMENT 'genre id-> genre of  
book',  
  KEY `fk_book_id2` (`book_id`),  
  KEY `fk_genre_id` (`genre_id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
CREATE TABLE `genre_info` (  
  `genre_id` int(8) unsigned zerofill NOT NULL AUTO_INCREMENT COMMENT 'unique id  
to genre',  
  `genre` varchar(32) NOT NULL DEFAULT '' COMMENT 'name of genre',  
  PRIMARY KEY (`genre_id`),  
  KEY `genre` (`genre`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
CREATE TABLE `keyword_blog_rel` (  
  `blog_id` int(8) unsigned zerofill NOT NULL COMMENT 'blog_id->blog',  
  `key_id` int(8) unsigned zerofill NOT NULL COMMENT 'key_id->keyword',  
  KEY `fk_blog_id` (`blog_id`),  
  KEY `fk_key_id4` (`key_id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
CREATE TABLE `keyword_book_rel` (  
  `book_id` int(8) unsigned zerofill NOT NULL COMMENT 'book_id->name of lib  
book',  
  `key_id` int(8) unsigned zerofill NOT NULL COMMENT 'key_id-> keyword for the  
book',  
  KEY `fk_book_id3` (`book_id`),  
  KEY `fk_key_id2` (`key_id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
CREATE TABLE `keyword_ncert_rel` (  
  `book_id` int(8) unsigned zerofill NOT NULL COMMENT 'book id->ncert book name',  
  `key_id` int(8) unsigned zerofill NOT NULL COMMENT 'key_id->keyword',  
  KEY `fk_ncert_book_id` (`book_id`),  
  KEY `fk_key_id` (`key_id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
CREATE TABLE `keyword_showcase_rel` (  
  `media_id` int(8) unsigned zerofill NOT NULL COMMENT 'media_id->media',  
  `key_id` int(8) unsigned zerofill NOT NULL COMMENT 'key_id->keyword',
```

```
KEY `fk_media_id` (`media_id`),  
KEY `fk_key_id3` (`key_id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
CREATE TABLE `keyword_thread_rel` (  
  `thread_id` int(8) unsigned zerofill NOT NULL COMMENT 'thread_id->thread',  
  `key_id` int(8) unsigned zerofill NOT NULL COMMENT 'key_id->keyword',  
  KEY `fk_thread_id` (`thread_id`),  
  KEY `fk_key_id5` (`key_id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
CREATE TABLE `keywords_info` (  
  `key_id` int(8) unsigned zerofill NOT NULL AUTO_INCREMENT COMMENT 'unique id to  
keyword',  
  `keyword` varchar(32) NOT NULL DEFAULT '' COMMENT 'a keyword',  
  PRIMARY KEY (`key_id`),  
  KEY `keyword` (`keyword`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
CREATE TABLE `lib_book_info` (  
  `book_id` int(8) unsigned zerofill NOT NULL AUTO_INCREMENT COMMENT 'unique book  
id',  
  `book_title` varchar(128) NOT NULL DEFAULT '' COMMENT 'name of the book',  
  `chapters` int(4) DEFAULT NULL COMMENT 'no of chapters',  
  `pages` int(4) DEFAULT NULL COMMENT 'no of pages',  
  `is_hard` tinyint(1) NOT NULL COMMENT 'available in library',  
  `is_soft` tinyint(1) NOT NULL COMMENT 'available as ebook',  
  `description` text COMMENT 'description of the book',  
  `published` int(2) unsigned zerofill DEFAULT NULL COMMENT 'year of  
publication',  
  `rating` tinyint(1) unsigned zerofill DEFAULT NULL COMMENT 'popular rating',  
  PRIMARY KEY (`book_id`),  
  KEY `book_title` (`book_title`),  
  KEY `is_soft` (`is_soft`),  
  KEY `is_hard` (`is_hard`),  
  KEY `rating` (`rating`),  
  KEY `published` (`published`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
CREATE TABLE `lib_links` (  
  `href` text NOT NULL COMMENT 'link',  
  `server_id` int(8) unsigned zerofill NOT NULL COMMENT 'server id for the hosted  
link',  
  `book_id` int(8) unsigned zerofill NOT NULL COMMENT 'book id of the link',  
  KEY `fk_server_id2` (`server_id`),  
  KEY `fk_book_id4` (`book_id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
CREATE TABLE `lib_server_info` (  
  `server_id` int(4) unsigned zerofill NOT NULL AUTO_INCREMENT COMMENT 'unique id  
for a server',  
  `server_name` varchar(32) NOT NULL DEFAULT '' COMMENT 'name of the server',  
  `server_url` varchar(128) NOT NULL DEFAULT '' COMMENT 'address of the server',  
  `server_description` tinytext NOT NULL COMMENT 'description for the server',  
  `server_protocol` varchar(16) NOT NULL DEFAULT '' COMMENT 'protocol used by the  
server',  
  `server_username` tinytext NOT NULL COMMENT 'server username',  
  `server_password` tinytext NOT NULL COMMENT 'server password',
```

```

PRIMARY KEY (`server_id`),
KEY `server_name` (`server_name`),
KEY `server_url` (`server_url`),
KEY `server_protocol` (`server_protocol`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

```

```

CREATE TABLE `ncert_book_info` (
  `book_id` int(8) unsigned zerofill NOT NULL AUTO_INCREMENT COMMENT 'unique book id',
  `book_title` varchar(128) NOT NULL DEFAULT '' COMMENT 'name of the book',
  `chapters` int(4) unsigned DEFAULT NULL COMMENT 'no of chapters in the book',
  `pages` int(4) unsigned DEFAULT NULL COMMENT 'total no of pages in the book',
  `rating` tinyint(1) unsigned zerofill NOT NULL COMMENT 'popular rating of the book',
  `grade` tinyint(1) NOT NULL COMMENT 'grade for the class the book is',
  `subject_id` int(4) NOT NULL COMMENT 'subject of the book for the grade specified',
  PRIMARY KEY (`book_id`),
  KEY `book_title` (`book_title`),
  KEY `rating` (`rating`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

```

```

CREATE TABLE `ncert_chapter_info` (
  `chapter_id` int(8) unsigned zerofill NOT NULL AUTO_INCREMENT COMMENT 'unique chapter id',
  `chapter_no` int(2) unsigned NOT NULL COMMENT 'chapter no/unit',
  `chapter_title` varchar(64) NOT NULL DEFAULT '' COMMENT 'chapter name',
  `book_id` int(8) unsigned zerofill NOT NULL COMMENT 'id of book-the chapter is in',
  `solution_thread` longtext COMMENT 'questions and solutions for the chapter',
  PRIMARY KEY (`chapter_id`),
  KEY `chapter_no` (`chapter_no`),
  KEY `chapter_title` (`chapter_title`),
  KEY `book_id` (`book_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

```

```

CREATE TABLE `ncert_chapter_topic_rel` (
  `chapter_id` int(8) unsigned zerofill NOT NULL COMMENT 'chapter id->chapter of a book',
  `topic_id` int(8) unsigned zerofill NOT NULL COMMENT 'topic id->topics in the chapter',
  KEY `chapter_id` (`chapter_id`),
  KEY `topic_id` (`topic_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

```

```

CREATE TABLE `ncert_links` (
  `href` text NOT NULL COMMENT 'link for the item',
  `server_id` int(4) unsigned zerofill NOT NULL COMMENT 'server id for the hosted link',
  `context` tinyint(1) unsigned zerofill NOT NULL COMMENT 'context: book(1),notes(2),oldq(3),ass(4),samp(5)',
  KEY `server_id` (`server_id`),
  KEY `context` (`context`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

```

```

CREATE TABLE `ncert_referencebook_subject_rel` (
  `subject_id` int(4) unsigned zerofill NOT NULL COMMENT 'subject_id->subject of a grade',

```

```

`grade` tinyint(1) unsigned zerofill NOT NULL COMMENT 'grade of a subject',
`ref_book_id` int(8) unsigned zerofill NOT NULL COMMENT 'elibrary book id',
KEY `fk_subject_id2` (`subject_id`),
KEY `grade` (`grade`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE `ncert_server_info` (
  `server_id` int(4) unsigned zerofill NOT NULL AUTO_INCREMENT COMMENT 'unique id
for a server',
  `server_name` varchar(32) NOT NULL DEFAULT '' COMMENT 'name of the server',
  `server_url` varchar(128) NOT NULL DEFAULT '' COMMENT 'address of the server',
  `server_description` tinytext NOT NULL COMMENT 'description for the server',
  `server_protocol` varchar(16) NOT NULL DEFAULT '' COMMENT 'protocol used by the
server',
  `server_username` tinytext NOT NULL COMMENT 'server username',
  `server_password` tinytext NOT NULL COMMENT 'server password',
  PRIMARY KEY (`server_id`),
  KEY `server_name` (`server_name`),
  KEY `server_url` (`server_url`),
  KEY `server_protocol` (`server_protocol`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE `ncert_topic_info` (
  `topic_id` int(8) unsigned zerofill NOT NULL AUTO_INCREMENT COMMENT 'unique
topic id ',
  `topic_name` varchar(64) NOT NULL DEFAULT '' COMMENT 'topic name',
  `rating` tinyint(1) unsigned zerofill NOT NULL COMMENT 'popularity of topic',
  PRIMARY KEY (`topic_id`),
  KEY `topic_name` (`topic_name`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE `scat_info` (
  `scat_id` int(8) unsigned NOT NULL AUTO_INCREMENT COMMENT 'unique id to small
cat',
  `scat_name` varchar(32) NOT NULL DEFAULT '' COMMENT 'name of small cat',
  `description` varchar(128) DEFAULT NULL COMMENT 'quick description to small
cat',
  `bcat_id` int(8) unsigned zerofill NOT NULL COMMENT 'id of broad cat',
  PRIMARY KEY (`scat_id`),
  KEY `fk_bcat_rel` (`bcat_id`),
  KEY `scat_name` (`scat_name`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE `showcase_info` (
  `media_id` int(8) unsigned zerofill NOT NULL AUTO_INCREMENT COMMENT 'unique id
to media',
  `topic_id` int(8) unsigned zerofill NOT NULL COMMENT 'topic_id->topic name',
  `media_title` varchar(32) NOT NULL DEFAULT '' COMMENT 'heading of the media',
  `description` tinytext COMMENT 'description for media ',
  `rating` tinyint(1) unsigned zerofill NOT NULL DEFAULT '0' COMMENT 'popular
rating',
  `href` tinytext COMMENT 'link of the media:optional',
  `embed` tinytext NOT NULL COMMENT 'embed rule for the media',
  PRIMARY KEY (`media_id`),
  KEY `fk_topic_id2` (`topic_id`),
  KEY `media_title` (`media_title`),
  KEY `rating` (`rating`)

```

```
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
CREATE TABLE `subject_info` (  
  `subject_id` int(4) unsigned zerofill NOT NULL AUTO_INCREMENT COMMENT 'unique  
subject id',  
  `subject` varchar(32) NOT NULL DEFAULT '' COMMENT 'subject name',  
  PRIMARY KEY (`subject_id`),  
  KEY `subject_name` (`subject`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
CREATE TABLE `thread_info` (  
  `thread_id` int(8) unsigned zerofill NOT NULL AUTO_INCREMENT COMMENT 'unique id  
to a thread',  
  `thread_title` varchar(128) NOT NULL DEFAULT '' COMMENT 'title of the thread',  
  `thread_description` varchar(256) NOT NULL DEFAULT '' COMMENT 'description of  
thread',  
  `scat_id` int(8) unsigned zerofill NOT NULL COMMENT 'scat of thread',  
  `published` timestamp NOT NULL DEFAULT '0000-00-00 00:00:00' ON UPDATE  
CURRENT_TIMESTAMP COMMENT 'date of publishing',  
  `is_question` tinyint(1) NOT NULL COMMENT 'is question or a page',  
  `is_solved` tinyint(1) NOT NULL COMMENT 'is solved/unsolved or open/close',  
  `thread` longtext NOT NULL COMMENT 'thread',  
  `user_id` int(8) unsigned zerofill NOT NULL COMMENT 'user_id of publisher',  
  `is_student` tinyint(1) NOT NULL COMMENT 'is student or teacher',  
  PRIMARY KEY (`thread_id`),  
  KEY `fk_scat_id2` (`scat_id`),  
  KEY `thread_title` (`thread_title`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
CREATE TABLE `user_class_subject_teacher_rel` (  
  `class_id` int(4) unsigned zerofill NOT NULL COMMENT 'class id ->section and  
grade',  
  `subject_id` int(4) unsigned zerofill NOT NULL COMMENT 'subject id->subject  
name',  
  `teacher_id` int(8) unsigned zerofill NOT NULL COMMENT 'teacher id->teacher',  
  KEY `fk_class_id` (`class_id`),  
  KEY `fk_subject_id` (`subject_id`),  
  KEY `fk_teacher_id` (`teacher_id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
CREATE TABLE `user_passreset_temp` (  
  `user_id` int(8) unsigned zerofill NOT NULL,  
  `is_student` tinyint(1) unsigned zerofill NOT NULL,  
  `email` varchar(128) NOT NULL DEFAULT '',  
  `onetime_serial` varchar(128) NOT NULL DEFAULT '',  
  UNIQUE KEY `onetime_serial` (`onetime_serial`),  
  KEY `is_student` (`is_student`),  
  KEY `user_id` (`user_id`),  
  KEY `email` (`email`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
CREATE TABLE `user_student_info` (  
  `student_id` int(8) unsigned zerofill NOT NULL AUTO_INCREMENT COMMENT 'unique  
student id',  
  `email_id` varchar(128) NOT NULL DEFAULT '' COMMENT 'unique email id',  
  `pass` char(32) NOT NULL DEFAULT '' COMMENT 'password 128bit md5hash',  
  `first_name` varchar(64) NOT NULL DEFAULT '' COMMENT 'first name of student',  
  `last_name` varchar(64) NOT NULL DEFAULT '' COMMENT 'last name of student',
```



```

`gender` tinyint(1) unsigned zerofill NOT NULL COMMENT 'gender',
`class_id` int(3) unsigned zerofill NOT NULL COMMENT 'class id fked to
class_info',
`dob` date NOT NULL COMMENT 'dob of the student',
`points` int(6) NOT NULL DEFAULT '0' COMMENT 'points earned',
`badges` varchar(10) NOT NULL DEFAULT '0000000000' COMMENT 'badges collected',
`notifications` text COMMENT 'activity notification',
`history` text COMMENT 'history of activity',
`backup_email` varchar(128) NOT NULL DEFAULT '' COMMENT 'backup email id',
`is_mod` tinyint(1) NOT NULL DEFAULT '0' COMMENT 'moderator status',
PRIMARY KEY (`student_id`),
UNIQUE KEY `email_id` (`email_id`),
KEY `name` (`first_name`,`last_name`),
KEY `fk_class_id2` (`class_id`),
KEY `pass` (`pass`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

```

```

CREATE TABLE `user_teacher_info` (
`teacher_id` int(8) unsigned zerofill NOT NULL AUTO_INCREMENT COMMENT 'unique
teacher id',
`email_id` varchar(128) NOT NULL DEFAULT '' COMMENT 'unique email id',
`pass` char(32) NOT NULL DEFAULT '' COMMENT 'password',
`first_name` varchar(64) NOT NULL DEFAULT '' COMMENT 'first name of teacher',
`last_name` varchar(64) NOT NULL DEFAULT '' COMMENT 'lastname of teacher',
`gender` tinyint(3) unsigned zerofill NOT NULL COMMENT 'gender',
`dob` date NOT NULL COMMENT 'dob of teacher',
`serial` int(11) DEFAULT NULL COMMENT 'teacher serial',
`backup_email` varchar(128) NOT NULL DEFAULT '' COMMENT 'backup email',
`teacher_time_table` text COMMENT 'time table of teacher',
PRIMARY KEY (`teacher_id`),
UNIQUE KEY `email_id` (`email_id`),
KEY `name` (`first_name`,`last_name`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

```

RUN-2:

```
ALTER TABLE `author_book_rel` ADD CONSTRAINT `fk_author_id2` FOREIGN KEY  
(`author_id`) REFERENCES `author_info`(`author_id`);
```

```
ALTER TABLE `author_dinfo` ADD CONSTRAINT `fk_author_id` FOREIGN KEY  
(`author_id`) REFERENCES `author_info` (`author_id`);
```

```
ALTER TABLE `blog_info` ADD CONSTRAINT `fk_scat_id` FOREIGN KEY (`scat_id`)  
REFERENCES `scat_info` (`scat_id`);
```

```
ALTER TABLE `dcq_thread_info` ADD CONSTRAINT `fk_dcqid` FOREIGN KEY (`dcqcat_id`)  
REFERENCES `dcq_cat_info` (`dcqcat_id`);
```

```
ALTER TABLE `develop_authors_userid_rel` ADD CONSTRAINT `fk_develop_id2` FOREIGN  
KEY (`develop_id`) REFERENCES `develop_info` (`develop_id`);
```

```
ALTER TABLE `develop_info` ADD CONSTRAINT `fk_scat_id3` FOREIGN KEY (`scat_id`)  
REFERENCES `scat_info` (`scat_id`);
```

```
ALTER TABLE `develop_info` ADD CONSTRAINT `fk_thread_id2` FOREIGN KEY  
(`thread_id`) REFERENCES `thread_info` (`thread_id`);
```

```
ALTER TABLE `develop_links` ADD CONSTRAINT `fk_develop_id` FOREIGN KEY  
(`develop_id`) REFERENCES `develop_info` (`develop_id`);
```

```
ALTER TABLE `develop_links` ADD CONSTRAINT `fk_server_id3` FOREIGN KEY  
(`server_id`) REFERENCES `develop_server_info` (`server_id`);
```

```
ALTER TABLE `genre_book_rel` ADD CONSTRAINT `fk_book_id2` FOREIGN KEY (`book_id`)  
REFERENCES `lib_book_info` (`book_id`);
```

```
ALTER TABLE `genre_book_rel` ADD CONSTRAINT `fk_genre_id` FOREIGN KEY  
(`genre_id`) REFERENCES `genre_info` (`genre_id`);
```

```
ALTER TABLE `keyword_blog_rel` ADD CONSTRAINT `fk_blog_id` FOREIGN KEY  
(`blog_id`) REFERENCES `blog_info` (`blog_id`);
```

```
ALTER TABLE `keyword_blog_rel` ADD CONSTRAINT `fk_key_id4` FOREIGN KEY (`key_id`)  
REFERENCES `keywords_info` (`key_id`);
```

```
ALTER TABLE `keyword_book_rel` ADD CONSTRAINT `fk_book_id3` FOREIGN KEY  
(`book_id`) REFERENCES `lib_book_info` (`book_id`);
```

```
ALTER TABLE `keyword_book_rel` ADD CONSTRAINT `fk_key_id2` FOREIGN KEY  
(`key_id`) REFERENCES `keywords_info` (`key_id`);
```

```
ALTER TABLE `keyword_ncert_rel` ADD CONSTRAINT `fk_key_id` FOREIGN KEY  
(`key_id`) REFERENCES `keywords_info` (`key_id`);
```

```
ALTER TABLE `keyword_ncert_rel` ADD CONSTRAINT `fk_ncert_book_id` FOREIGN KEY  
(`book_id`) REFERENCES `ncert_book_info` (`book_id`);
```

```
ALTER TABLE `keyword_showcase_rel` ADD CONSTRAINT `fk_key_id3` FOREIGN KEY  
(`key_id`) REFERENCES `keywords_info` (`key_id`);
```

```
ALTER TABLE `keyword_showcase_rel` ADD CONSTRAINT `fk_media_id` FOREIGN KEY  
(`media_id`) REFERENCES `showcase_info` (`media_id`);
```

```
ALTER TABLE `keyword_thread_rel` ADD CONSTRAINT `fk_key_id5` FOREIGN KEY  
(`key_id`) REFERENCES `keywords_info` (`key_id`);
```

```
ALTER TABLE `keyword_thread_rel` ADD CONSTRAINT `fk_thread_id` FOREIGN KEY  
(`thread_id`) REFERENCES `thread_info` (`thread_id`);
```

```
ALTER TABLE `lib_links` ADD CONSTRAINT `fk_book_id4` FOREIGN KEY (`book_id`)  
REFERENCES `lib_book_info` (`book_id`);
```

```
ALTER TABLE `lib_links` ADD CONSTRAINT `fk_server_id2` FOREIGN KEY (`server_id`)  
REFERENCES `lib_server_info` (`server_id`);
```

```
ALTER TABLE `ncert_chapter_info` ADD CONSTRAINT `fk_book_id` FOREIGN KEY  
(`book_id`) REFERENCES `ncert_book_info` (`book_id`);
```

```
ALTER TABLE `ncert_chapter_topic_rel` ADD CONSTRAINT `fk_chapter_id` FOREIGN KEY  
(`chapter_id`) REFERENCES `ncert_chapter_info` (`chapter_id`);
```

```
ALTER TABLE `ncert_chapter_topic_rel` ADD CONSTRAINT `fk_topic_id` FOREIGN KEY  
(`topic_id`) REFERENCES `ncert_topic_info` (`topic_id`);
```

```
ALTER TABLE `ncert_links` ADD CONSTRAINT `fk_server_id` FOREIGN KEY (`server_id`)  
REFERENCES `ncert_server_info` (`server_id`);
```

```
ALTER TABLE `ncert_referencebook_subject_rel` ADD CONSTRAINT `fk_subject_id2`  
FOREIGN KEY (`subject_id`) REFERENCES `subject_info` (`subject_id`);
```

```
ALTER TABLE `scat_info` ADD CONSTRAINT `fk_bcat_rel` FOREIGN KEY (`bcat_id`)  
REFERENCES `bcat_info` (`bcat_id`);
```

```
ALTER TABLE `showcase_info` ADD CONSTRAINT `fk_topic_id2` FOREIGN KEY  
(`topic_id`) REFERENCES `ncert_topic_info` (`topic_id`);
```

```
ALTER TABLE `thread_info` ADD CONSTRAINT `fk_scat_id2` FOREIGN KEY (`scat_id`)  
REFERENCES `scat_info` (`scat_id`);
```

```
ALTER TABLE `user_class_subject_teacher_rel` ADD CONSTRAINT `fk_class_id` FOREIGN  
KEY (`class_id`) REFERENCES `class_info` (`class_id`);
```

```
ALTER TABLE `user_class_subject_teacher_rel` ADD CONSTRAINT `fk_subject_id`  
FOREIGN KEY (`subject_id`) REFERENCES `subject_info` (`subject_id`);
```

```
ALTER TABLE `user_class_subject_teacher_rel` ADD CONSTRAINT `fk_teacher_id`  
FOREIGN KEY (`teacher_id`) REFERENCES `user_teacher_info` (`teacher_id`);
```

```
ALTER TABLE `user_student_info` ADD CONSTRAINT `fk_class_id2` FOREIGN KEY  
(`class_id`) REFERENCES `class_info` (`class_id`);
```