ΑΝΑΦΟΡΑ ΒΑΣΕΩΝ ΔΕΔΟΜΕΝΩΝ

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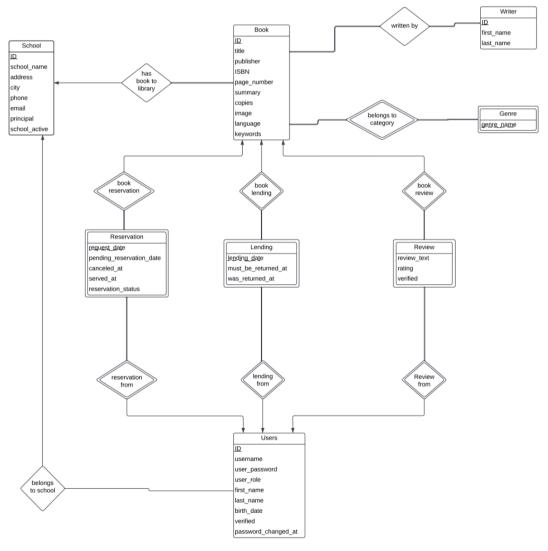
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Εκφώνηση

Ζητούμενο της εργασίας είναι η υλοποίηση ενός συστήματος αποθήκευσης και διαχείρισης πληροφοριών που είναι απαραίτητες για τη λειτουργία σχολικών βιβλιοθηκών. Κάθε δημόσιο σχολείο που χρησιμοποιεί το συγκεκριμένο σύστημα έχει καταχωρημένους χρήστες και πρόσβαση (οι χρήστες του) στα βιβλία που ανήκουν σε αυτό. Κάθε χρήστης μπορεί να κάνει κρατήσεις, να δανείζεται και να αξιολογεί βιβλία καθώς επίσης να εισάγει και διαχειρίζεται πληροφορίες του συστήματος ανάλογα με το ρόλο του.

ΕR & Σχεσιακό διάγραμμα της ΒΔ με αιτιολόγηση και ευρετήρια

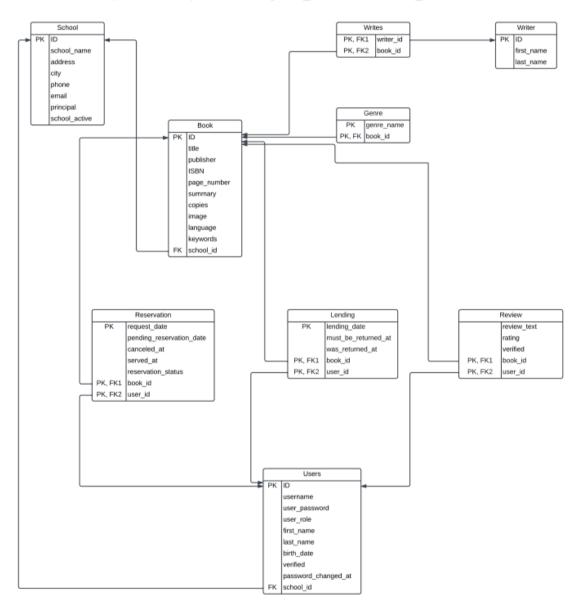
ΕR Διάγραμμα



Στην βάση μας έχουμε 8 entity sets: σχολεία, βιβλία, συγγραφείς, κατηγορίες βιβλίων, κρατήσεις, δανεισμούς, αξιολογήσεις και χρήστες με τα αντίστοιχα χαρακτηριστικά τους καθώς και τις σχέσεις που τα συνδέουν. Από το παραπάνω διάγραμμα οντοτήτων σχέσεων προκύπτει το σχεσιακό διάγραμμα που ακολουθεί.

Σχεσιακό Διάγραμμα

Τα entity sets του ER διαγράμματος έχουν μετατραπεί σε πίνακες με στήλες τα αντίστοιχα χαρακτηριστικά τους. Οι σχέσεις one-to-many του ER απεικονίζονται πλέον με τη χρήση ξένων κλειδιών στους πίνακες των οντοτήτων που συνδέονταν στην μεριά των πολλών στη αντίστοιχη σχέση τους, ενώ οι σχέσεις many-to-many έχουν αντικατασταθεί από έναν επιπλέον πίνακα με στήλες τα primary keys των οντοτήτων που συνδέουν. (Στην περίπτωση του entity set genre η σχέση με το entity set book καθώς και η ίδια η οντότητα έχουν αντικατασταθεί με ένα table με στήλες το genre_name και το book_id ως ξένο κλειδί.)



Από το παραπάνω σχεσιακό διάγραμμα δημιουργούμε τα αντίστοιχα tables στην SQL με τα κατάλληλα constraints και indexes που θα βοηθήσουν στην καλύτερη αποθήκευση και διαχείριση των πληροφοριών στη βάση.

Indexes

Τα ευρετήρια συμβάλουν στην αύξηση της αποδοτικότητας της βάσης καθώς με τη χρήση τους οι ανάκτηση των δεδομένων γίνεται πολύ πιο γρήγορα. Στην MySQL για τη στήλη που αποτελεί primary key για τον αντίστοιχο πίνακα καθώς και για τις στήλες που έχουν unique constraint ή είναι unique key δημιουργούνται αυτόματα indexes. Επίσης το ευρετήριο ενός composite key μπορεί να χρησιμοποιηθεί για κάθε υποσύνολο στηλών που διατηρεί τη σειρά των στηλών του. Για αυτόν το λόγο πρέπει να επιλέξουμε προσεκτικά ποια στήλη θα είναι πρώτη καθώς τα indexes δε θα φανούν χρήσιμα σε κάθε αναζήτηση που γίνεται με βάση κάποια άλλη στήλη (όχι την πρώτη). Επιπλέον ορίζουμε ως indexes και foreign keys που δεν είναι primary keys. Αυτό είναι χρήσιμο αφού τα primary keys αποτελούν το αναγνωριστικό με το οποίο γίνονται οι περισσότερες αναζητήσεις καθώς και τα foreign keys χρησιμοποιούνται συχνά σε join πινάκων και είναι απαραίτητη η γρήγορη προσπέλαση αυτών των δεδομένων.

Αναλυτικά για κάθε πίνακα

Για την δημιουργία των παρακάτω πινάκων έγινε χρήση του not null constraint σε όλα τα primary keys καθώς δεν μπορούν να πάρουν null τιμές, σε όλα τα foreign keys για λόγους συνέπειας των δεδομένων (εκτός από την περίπτωση του foreign key school_id στον πίνακα Users όπου η τιμή του μπορεί να είναι null αφού ο χρήστης με ρόλο super-admin δεν ανήκει σε κανένα σχολείο) αλλά και όπου ήταν λογικά απαραίτητο.

School

Το ID είναι primary key καθώς είναι μοναδικό για κάθε σχολείο.

Τα school_name, phone, email κάθε σχολείου θέλουμε να είναι μοναδικά για προφανείς λόγους.

Το πεδίο school_active θέλουμε η default τιμή του να είναι μηδέν, δηλαδή ανενεργό, μέχρι να προστεθεί κάποιος user για το συγκεκριμένο σχολείο με ρόλο 'school_admin' και να γίνει verified. Τότε το σχολείο ενεργοποιείται αυτόματα (school_active = 1) με χρήση trigger για αυτό επίσης ορίζουμε και το συγκεκριμένο πεδίο ως index.

Book

To ID είναι primary key καθώς είναι μοναδικό για κάθε βιβλίο.

Ο συνδυασμός title και school_id θέλουμε να είναι μοναδικός αφού το πλήθος των ίδιων βιβλίων σε κάθε σχολείο φαίνεται από το πεδίο copies (και προφανώς copies >= 0).

Το πεδίο school_id είναι foreign key που αναφέρεται στο table school και αντιστοιχίζει τους δύο πίνακες με σχέση ένα (school) προς πολλά (book).

Writer

Το ID είναι primary key καθώς είναι μοναδικό για κάθε συγγραφέα.

Writes

Ο συνδυασμός book_id και writer_id είναι primary key αφού είναι μοναδικός.

Τα πεδία book_id και writer_id είναι foreign keys που αναφέρονται στους πίνακες book και users αντίστοιχα.

Ο πίνακας writes αναπαριστά τη σχέση written by στο ER diagram που συσχετίζει τα entity sets book και writer με σχέση πολλά προς πολλά.

Genre

Ο συνδυασμός book id και genre είναι primary key αφού είναι μοναδικός.

Το πεδίο book_id είναι foreign key που αναφέρεται στο table book και αντιστοιχίζει του ς δύο πίνακες με σχέση πολλά (genre) προς πολλά (book).

Users

Το ID είναι primary key καθώς είναι μοναδικό για κάθε χρήστη.

To username είναι unique για να είναι εύκολη η αναζήτηση user με αυτό, καθώς χρησιμοποιείται συχνά για την επαλήθευση της σύνδεσης του.

Κάθε user έχει ένα από τους ρόλους 'super-admin', 'school-admin', 'teacher', 'student' με την αντίστοιχη πρόσβαση σε δεδομένα και λειτουργίες της εφαρμογής.

Το πεδίο verified έχει default τιμή 0 η οποία αλλάζει ανάλογα με το ρόλο του user. Αν ο χρήστης που προστίθεται είναι ο 'super-admin' τότε με χρήση trigger το πεδίο verified γίνεται αυτόματα 1. Σε κάθε άλλη περίπτωση ο χρήστης παραμένει not verified μέχρι o 'super-admin' (στην περίπτωση του 'school-admin') ή ο 'school-admin' (για teacher ή student) να τον κάνει verified.

Το πεδίο changed_password_at έχει default τιμή null μέχρι ο χρήστης να αλλάξει πρώτη φορά password.

Το πεδίο school_id είναι foreign key που αναφέρεται στο table school και αναπαριστά τη σχέση belongs to του ER διαγράμματος συσχετίζοντας τα δύο σύνολα οντοτήτων με σχέση ένα (σχολείο) προς πολλά (χρήστες). Εκτός από την περίπτωση του 'super-admin' που αναφέραμε προηγουμένως.

Reservation

Ο συνδυασμός των πεδίων book_id, user_id, request_date είναι το primary key αφού είναι μοναδικός, γιατί κάθε user μπορεί να ξανακάνει κράτηση του ίδιου βιβλίου σε άλλη χρονική στιγμή.

Το πεδίο request_date έχει default τιμή την ημερομηνία που γίνεται η αίτηση για κράτηση ενός βιβλίου.

Το πεδίο pending_reservation_date έχει default null και θα πάρει ως τιμή την ημερομηνία που θα τεθεί σε αναμονή το αίτημα για κράτηση αν δεν υπάρχουν διαθέσιμα αντίτυπα του βιβλίου που ζητείται.

Το πεδίο canceled_at έχει default τιμή null και θα πάρει ως τιμή την ημερομηνία που πραγματοποιήθηκε η ακύρωση κράτησης από τον εκπαιδευτικό ή τον μαθητή που έκανε το αίτημα. Σε περίπτωση που η κατάσταση (reservation_status) της κράτησης ή του αιτήματος κράτησης δεν έχει αλλάξει για χρονικό διάστημα μεγαλύτερο της μιας εβδομάδας τότε η κράτηση ή το αίτημα ακυρώνονται αυτόματα.

Το πεδίο served_at έχει default τιμή null, η οποία θα αλλάξει στην ημερομηνία εξυπηρέτησης της κράτησης μόλις πραγματοποιηθεί ο δανεισμός του συγκεκριμένου βιβλίου.

Το πεδίο reservation_status έχει τιμή ανάλογα με την κατάσταση της κράτησης:

- 0 -> (default τιμή) αίτημα κράτησης
- 1 -> μη διαθέσιμα αντίτυπα (αναμονή)
- 2 -> δανεισμός βιβλίου
- 3 -> ακύρωση κράτησης

Τα πεδία user_id και book_id αποτελούν ξένα κλειδιά που αναφέρονται στο table user και book και αναπαριστούν τις σχέσεις reservation_from και book_reservation του ER διαγράμματος αντίστοιχα.

Lending

Ο συνδυασμός των πεδίων book_id, user_id και lending_date είναι το primary key αφού είναι μοναδικός.

Το πεδίο lending_date έχει default τιμή την ημερομηνία που πραγματοποιείται ο δανεισμός του συγκεκριμένου βιβλίου.

Το πεδίο must_be_returned_at έχει default τιμή ένα μήνα μετά την ημερομηνία δανεισμού.

Το πεδίο was_returned_at έχει default τιμή null, η οποία θα αλλάξει μόλις επιστραφεί το συγκεκριμένο βιβλίο.

Τα πεδία user_id και book_id αποτελούν ξένα κλειδιά που αναφέρονται στο table user και book και αναπαριστούν τις σχέσεις lending_from και book_lending του ER διαγράμματος αντίστοιχα.

Review

Ο συνδυασμός των πεδίων book_id, user_id είναι το primary key αφού είναι μοναδικός, γιατί κάθε user μπορεί να γράψει μόνο μια αξιολόγηση για κάθε βιβλίο που έχει δανειστεί.

Το πεδίο verified έχει default τιμή μηδέν, η οποία αλλάζει αυτόματα σε 1 με χρήση trigger αν ο χρήστης που αξιολογεί το βιβλίο είναι εκπαιδευτικός, ενώ παραμένει 0 μέχρι ο school_admin να την κάνει verified (δηλ, 1) αν ο χρήστης είναι μαθητής.

Το βαθμολογικό σχήμα έχει κλίμακα από το 1 έως το 5 ως ακέραιοι αριθμοί.

Τα πεδία user_id και book_id αποτελούν ξένα κλειδιά που αναφέρονται στο table user και book και αναπαριστούν τις σχέσεις review_from και book_review του ER διαγράμματος αντίστοιχα.

DDL + DML scripts

```
DROP DATABASE IF EXISTS <db name>;
CREATE DATABASE <db name>;
USE <db name>;
CREATE TABLE School (
   ID INT NOT NULL AUTO INCREMENT,
   school name VARCHAR (255) NOT NULL UNIQUE,
   address VARCHAR (255) NOT NULL,
   city VARCHAR (255) NOT NULL,
    phone VARCHAR (255) NOT NULL UNIQUE,
    email VARCHAR (255) NOT NULL UNIQUE,
    principal VARCHAR (255) NOT NULL,
    school active BIT NOT NULL DEFAULT(0),
    PRIMARY KEY (ID),
    INDEX school active index (school active)
);
CREATE TABLE Book (
   ID INT NOT NULL AUTO INCREMENT,
   title VARCHAR (255) NOT NULL,
    publisher VARCHAR (255) NOT NULL,
    ISBN VARCHAR (255) NOT NULL,
    page number INT NOT NULL,
    summary VARCHAR(1000) NOT NULL,
    copies INT NOT NULL,
    image VARCHAR (255) NOT NULL,
    lang VARCHAR (255) NOT NULL,
    keywords VARCHAR (255) NOT NULL,
    school ID INT NOT NULL,
    PRIMARY KEY (ID),
```

```
UNIQUE KEY (title, school_id),
    FOREIGN KEY (school ID) REFERENCES School (ID) ON DELETE RESTRICT ON UPDATE
CASCADE,
   CONSTRAINT CHECK (copies>=0),
    INDEX index book school (school ID)
);
CREATE TABLE Writer (
   ID INT NOT NULL AUTO INCREMENT,
    first_name VARCHAR(255) NOT NULL,
    last name VARCHAR(255) NOT NULL,
    PRIMARY KEY (ID)
);
CREATE TABLE Writes (
    writer ID INT NOT NULL,
    book ID INT NOT NULL,
    PRIMARY KEY (writer ID, book ID),
    FOREIGN KEY (writer_ID) REFERENCES Writer(ID) ON DELETE RESTRICT ON UPDATE
    FOREIGN KEY (book ID) REFERENCES Book(ID) ON DELETE RESTRICT ON UPDATE CASCADE,
    INDEX index book written (book ID)
);
CREATE TABLE Genre (
    book ID INT NOT NULL,
    genre VARCHAR (255) NOT NULL,
    PRIMARY KEY (genre, book ID),
    FOREIGN KEY (book ID) REFERENCES Book(ID) ON DELETE RESTRICT ON UPDATE CASCADE,
    INDEX index book genre (book ID)
);
CREATE TABLE Users (
   ID INT NOT NULL AUTO_INCREMENT,
    username VARCHAR (255) NOT NULL UNIQUE,
    user password VARCHAR(255) NOT NULL,
    user role ENUM('super-admin', 'school-admin', 'teacher', 'student') NOT NULL,
    first name VARCHAR(255) NOT NULL,
    last name VARCHAR(255) NOT NULL,
    birth date DATETIME NOT NULL,
    school ID INT DEFAULT (NULL),
    verified BIT NOT NULL DEFAULT(0),
    changed password at DATETIME DEFAULT (NULL),
    PRIMARY KEY (ID),
    FOREIGN KEY (school ID) REFERENCES School(ID) ON DELETE RESTRICT ON UPDATE
    INDEX index user school (school ID)
);
CREATE TABLE Reservation (
    user ID INT NOT NULL,
    book ID INT NOT NULL,
    request date DATETIME NOT NULL DEFAULT(NOW()),
    pending reservation date DATETIME DEFAULT (NULL),
    canceled at DATETIME DEFAULT (NULL),
         served at DATETIME DEFAULT (NULL),
    reservation status INT NOT NULL DEFAULT(0),
```

```
PRIMARY KEY (user ID, book ID, request date),
    FOREIGN KEY (user ID) REFERENCES Users (ID) ON DELETE RESTRICT ON UPDATE CASCADE,
    FOREIGN KEY (book ID) REFERENCES Book(ID) ON DELETE RESTRICT ON UPDATE CASCADE,
    INDEX index reserv book (book ID, user ID)
);
CREATE TABLE Lending (
   user ID INT NOT NULL,
   book ID INT NOT NULL,
    lending_date DATETIME NOT NULL DEFAULT(NOW()),
    must_be_returned_at DATETIME NOT NULL DEFAULT(DATE_ADD(NOW(),INTERVAL 1 MONTH)),
         was returned at DATETIME DEFAULT (NULL),
    PRIMARY KEY (user ID, book ID, lending date),
    FOREIGN KEY (user ID) REFERENCES Users (ID) ON DELETE RESTRICT ON UPDATE CASCADE,
    FOREIGN KEY (book ID) REFERENCES Book (ID) ON DELETE RESTRICT ON UPDATE CASCADE,
    INDEX index lend book (book ID, user ID)
);
CREATE TABLE Review (
   user ID INT NOT NULL,
   book ID INT NOT NULL,
    review VARCHAR(255) NOT NULL,
    rating INT NOT NULL,
    verified BIT NOT NULL DEFAULT(0),
    PRIMARY KEY (user ID, book ID),
    FOREIGN KEY (user ID) REFERENCES Users (ID) ON DELETE RESTRICT ON UPDATE CASCADE,
    FOREIGN KEY (book ID) REFERENCES Book(ID) ON DELETE RESTRICT ON UPDATE CASCADE,
    CHECK (rating<=5 AND rating>=0),
    INDEX index review book (book ID, user ID)
);
CREATE VIEW activeUsers AS
(SELECT u.* FROM Users u JOIN School s ON u.school ID=s.ID WHERE s.school active=1)
UNION
(SELECT * FROM Users WHERE user role='super-admin');
CREATE VIEW verifiedUsers AS
SELECT * FROM activeUsers WHERE verified=1;
DELIMITER $$
CREATE TRIGGER update user_verification
BEFORE INSERT ON Users
FOR EACH ROW
BEGIN
    IF NEW.user_role = 'super-admin' THEN
       SET NEW.verified = 1;
   END IF;
END$$
DELIMITER ;
DELIMITER $$
CREATE TRIGGER update_review_verification
BEFORE INSERT ON Review
FOR EACH ROW
BEGIN
    IF (SELECT user role FROM Users WHERE ID=New.user id)='teacher' THEN
                   SET New.verified = 1;
```

```
END IF;
END$$
DELIMITER ;
DELIMITER $$
CREATE TRIGGER make school active
BEFORE INSERT ON Users
FOR EACH ROW
   IF (NEW.user_role = 'school-admin' AND
   (SELECT COUNT(*) FROM Users WHERE (user_role='school-admin'AND
school ID=NEW.school ID))=0) THEN
      UPDATE School SET school active=1 WHERE ID=NEW.school ID;
   END IF;
END$$
DELIMITER ;
DELIMITER $$
CREATE TRIGGER make_school_inactive
AFTER DELETE ON Users
FOR EACH ROW
BEGIN
   IF (OLD.user role = 'school-admin' AND
   (SELECT COUNT(*) FROM Users WHERE (user_role='school-admin'AND
school_ID=OLD.school_ID))=0) THEN
     UPDATE School SET school active=0 WHERE ID=OLD.school ID;
   END IF;
END$$
DELIMITER ;
DELIMITER //
CREATE TRIGGER hash password before insert BEFORE INSERT ON Users
 FOR EACH ROW
 BEGIN
        SET NEW.user password =
NEW.user password), 256);
 END;//
CREATE TRIGGER hash password before update BEFORE UPDATE ON Users
 FOR EACH ROW
 BEGIN
        IF OLD.user_password <> NEW.user_password AND OLD.user_password <>
s', NEW.user password), 256) THEN
                SET NEW.user password =
SHA2 (CONCAT ('kimnamjoonkimseokjinminyoongijunghoseokparkjiminkimtaehyungjeonjungkookbt
s',
                NEW.user password), 256);
        END IF;
 END: //
DELIMITER ;
CREATE TRIGGER add_three_hours_to_birth_date_insert
BEFORE INSERT ON users
```

```
FOR EACH ROW
BEGIN
        SET NEW.birth date = DATE ADD(NEW.birth date, INTERVAL 3 HOUR);
END$$
CREATE TRIGGER add three hours to birth date update
BEFORE UPDATE ON users
FOR EACH ROW
         IF NEW.birth_date <> OLD.birth_date THEN
                  SET NEW.birth date = DATE ADD(NEW.birth date, INTERVAL 3 HOUR);
         END IF;
END$$
DELIMITER ;
DELIMITER //
CREATE FUNCTION change password (user_username VARCHAR(255), old_password VARCHAR(255),
new password VARCHAR(255))
RETURNS VARCHAR (255) DETERMINISTIC
    IF (SELECT user password FROM Users WHERE username=user username) =
SHA2 (CONCAT ('kimnamjoonkimseokjinminyoongijunghoseokparkjiminkimtaehyungjeonjungkookbt
s', old password), 256) THEN
         IF new password=old password THEN RETURN "OK"; END IF;
          \textbf{UPDATE} \ \ \textbf{Users} \ \ \textbf{SET} \ \ \textbf{user} \ \ \textbf{password} = \textbf{new} \ \ \textbf{password}, \ \ \textbf{changed} \ \ \textbf{password} \ \ \textbf{at=} \underline{\textbf{NOW}} \ () \ \ \textbf{WHERE} 
username = user username;
         RETURN 'OK';
    ELSE
                     RETURN 'NOT OK';
    END IF;
END//
DELIMITER ;
DELIMITER //
CREATE FUNCTION check user login(p username VARCHAR(255), p password VARCHAR(255))
RETURNS INT DETERMINISTIC
BEGIN
    DECLARE count INT DEFAULT 0;
    IF (SELECT user_role FROM Users WHERE username = p_username) = 'super-admin' THEN
         SELECT COUNT(*) INTO count FROM Users WHERE username = p username AND verified = 1
AND user password =
{\tt SHA2}~({\tt CONCAT}~(\texttt{'}{\tt kimnamjoonkimseokjinminyoongijunghoseokparkjiminkimtaehyungjeonjungkookbt)) and {\tt CONCAT}~(\texttt{'}{\tt kimnamjoonkimseokjinminyoongijunghoseokparkjiminkimtaehyungjeonjunghoseokparkjiminkimtaehyungjeonjunghoseokparkjiminkimtaehyungjeonjunghoseokparkjiminkimtaehyungjeonjunghoseokparkjiminkimtaehyungjeonjunghoseokparkjiminkimtaehyungjeonjunghoseokparkjiminkimtaehyungjeonjunghoseokparkjiminkimtaehyungjeonjunghoseokparkjiminkimtaehyungjeonjunghoseokparkjiminkimtaehyungjeonjunghoseokparkjiminkimtaehyungjeonjunghoseokparkjiminkimtaehyungjeonjunghoseokparkjiminkimtaehyungjeonjunghoseokparkjiminkimtaehyungjeonjunghoseokparkjiminkimtaehyungjeonjunghoseokparkjiminkimtaehyungjeonjunghoseokparkjiminkimtaehyungjeonjunghoseokparkjiminkimtaehyungjeonjunghoseokparkjiminkimtaehyungjeonjunghoseokparkjiminkimtaehyungjeonjunghoseokparkjiminkimtaehyungjeonjunghoseokparkjiminkimtaehyungjeonjunghoseokparkjiminkimtaehyungjeonjunghoseokparkjiminkimtaehyungjeonjunghoseokparkjiminkimtaehyungjeonjunghoseokparkjiminkimtaehyungjeonjunghoseohyungjiminkimtaehyungjeonjunghoseohyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyungjiminkimtaehyun
s', p password), 256);
         SELECT COUNT(*) INTO count FROM verifiedUsers
         WHERE username = p username AND user password =
SHA2 (CONCAT ('kimnamjoonkimseokjinminyoongijunghoseokparkjiminkimtaehyungjeonjungkookbt
s', p password), 256);
    END IF;
    RETURN count;
END//
DELIMITER ;
```

```
DELIMITER //
CREATE FUNCTION make reservation(book title VARCHAR(255), school INT, user INT, role
VARCHAR (255))
RETURNS VARCHAR (255) DETERMINISTIC
        SET @book = (SELECT ID FROM Book WHERE title = book title AND school ID =
school);
    IF @book IS NULL THEN RETURN 'NO BOOK'; END IF;
         IF role = 'teacher' THEN SET @reservationsAllowed=1;
          ELSEIF role = 'student' THEN SET @reservationsAllowed=2;
         END IF;
    IF (SELECT COUNT(*) FROM Reservation WHERE user ID-user AND book ID-@book AND
(reservation status=0 OR reservation status=1)) <> 0 THEN
                   RETURN 'ALREADY RESERVATION';
          ELSEIF (SELECT COUNT(*) FROM Lending WHERE user ID=user AND book ID=@book
AND was_returned_at IS NULL) <> 0 THEN
                    RETURN 'ALREADY LENDING';
          ELSEIF (SELECT COUNT(*) FROM Lending WHERE user ID=user AND was returned at
\label{eq:local_norm} \textbf{IS} \ \ \text{NULL} \ \ \textbf{AND} \ \ \text{must\_be\_returned\_at<NOW} \ (\text{)} \ ) \ \ <> \ 0 \ \ \textbf{THEN}
                   RETURN 'DELAY';
          ELSEIF (SELECT COUNT(*) FROM Reservation WHERE user ID=user AND
reservation status=0) > (@reservationsAllowed-1) THEN
                    RETURN 'TOO MANY';
         ELSE
                   INSERT INTO Reservation (user ID, book ID) VALUES (user, @book);
                   RETURN 'OK';
         END IF;
END//
DELIMITER ;
DELIMITER //
CREATE FUNCTION handle reservation (book title VARCHAR (255), school INT, u username
VARCHAR (2.55))
RETURNS VARCHAR (255) DETERMINISTIC
        SET @book = (SELECT ID FROM Book WHERE title = book title AND school ID =
   IF @book IS NULL THEN RETURN 'NO BOOK';
    END IF;
    SET @libraryuser = (SELECT ID FROM verifiedUsers WHERE username = u username AND
school ID = school AND (user role='teacher' OR user role='student'));
    IF @libraryuser IS NULL THEN RETURN 'NO USER';
    END TF:
    SET @userrole = (SELECT user role FROM verifiedUsers WHERE username = u username
AND school ID = school);
    IF (SELECT COUNT(*) FROM Reservation WHERE user ID=@libraryuser AND book ID=@book
AND (reservation status=0 OR reservation status=1)) = 0 THEN
                   SET @original = true;
          ELSE
                   SET @original = false;
          END IF;
          IF @userrole = 'teacher' THEN
                   SET @lendingsAllowed=1;
```

```
ELSEIF @userrole = 'student' THEN
                  SET @lendingsAllowed=2;
         END IF:
    IF (SELECT COUNT(*) FROM Lending WHERE user ID=@libraryuser AND book ID=@book AND
was returned at IS NULL) <> 0 THEN
                   RETURN 'ALREADY LENDING';
         ELSEIF (SELECT COUNT(*) FROM Lending WHERE user ID=@libraryuser AND
was returned at IS NULL AND must be returned at < NOW()) <> 0 THEN
                  RETURN 'DELAY';
         ELSEIF (SELECT copies FROM Book WHERE ID=@book) = 0 THEN
                  IF @original = false THEN
                            UPDATE Reservation SET pending_reservation_date=NOW(),
reservation status=1 WHERE user ID=@libraryuser AND book ID=@book AND
reservation status=0;
            RETURN 'NO COPY, UPDATED TO PENDING';
                   ELSE
                            RETURN 'NO COPY';
                   END TF:
         ELSEIF (SELECT COUNT(*) FROM Lending WHERE user ID=@libraryuser AND
was returned at IS NULL) > (@lendingsAllowed-1) THEN
                  RETURN 'TOO MANY';
         ELSE
                  INSERT INTO Lending (user ID, book ID) VALUES (@libraryuser,
@book);
        UPDATE Book SET copies=copies-1 WHERE ID=@book;
        UPDATE Reservation SET served at=NOW(), reservation status=2 WHERE
user ID=@libraryuser AND book ID=@book AND (reservation status=0 OR
reservation status=1);
                  RETURN 'OK';
        END IF:
END//
DELIMITER ;
CREATE FUNCTION return book(book title VARCHAR(255), school INT, u username
VARCHAR (255))
RETURNS VARCHAR (255) DETERMINISTIC
         SET @book = (SELECT ID FROM Book WHERE title = book title AND school ID =
school):
   IF @book IS NULL THEN RETURN 'NO BOOK';
    SET @libraryuser = (SELECT ID FROM verifiedUsers WHERE username = u username AND
school ID = school AND (user role='teacher' OR user role='student'));
    IF @libraryuser IS NULL THEN RETURN 'NO USER';
   END IF;
    IF (SELECT COUNT(*) FROM Lending WHERE user ID=@libraryuser AND book ID=@book AND
was returned at IS NULL) = 0 THEN
                  RETURN 'NO LENDING';
                   UPDATE Book SET copies=copies+1 WHERE ID=@book;
        UPDATE Lending SET was returned at=NOW() WHERE user ID=@libraryuser AND
book ID=@book;
       RETURN 'OK';
```

```
END IF;
END//
DELIMITER ;
DELIMITER //
CREATE FUNCTION cancel reservation (book title VARCHAR (255), school INT, u username
VARCHAR (255))
RETURNS VARCHAR (255) DETERMINISTIC
        SET @book = (SELECT ID FROM Book WHERE title = book title AND school ID =
school);
   IF @book IS NULL THEN RETURN 'NO BOOK';
   END TF:
    SET @libraryuser = (SELECT ID FROM verifiedUsers WHERE username = u username AND
school ID = school AND (user role='teacher' OR user role='student'));
    IF (SELECT COUNT(*) FROM Reservation WHERE user ID=@libraryuser AND book ID=@book
AND (reservation_status=0 OR reservation_status=1)) = 0 THEN
                   RETURN 'NO RESERVATION';
         ELSE
       UPDATE Reservation SET canceled at=NOW(), reservation status=3 WHERE
user ID=@libraryuser AND book ID=@book;
       RETURN 'OK';
        END IF;
END//
DELIMITER ;
DELIMITER //
CREATE FUNCTION deactivate user (school INT, u username VARCHAR (255))
RETURNS VARCHAR (255) DETERMINISTIC
BEGIN
   SET @libraryuser = (SELECT ID FROM verifiedUsers WHERE username = u username AND
school ID = school AND (user role='teacher' OR user role='student'));
    IF @libraryuser IS NULL THEN RETURN 'NO USER';
    END IF;
    UPDATE Reservation SET canceled at=NOW(), reservation status=3 WHERE
user ID=@libraryuser AND (reservation status=0 OR reservation status=1);
    UPDATE Book b JOIN Lending 1 ON 1.book ID=b.ID SET b.copies=b.copies+1,
1.was returned at=NOW() WHERE 1.user ID=@libraryuser AND 1.was returned at IS NULL;
    UPDATE Review SET verified=0 WHERE user ID=@libraryuser;
    UPDATE Users SET verified=0 WHERE ID=@libraryuser;
   RETURN 'OK';
END//
DELIMITER ;
DELIMITER //
CREATE FUNCTION verify_teacher student(school INT, u username VARCHAR(255))
RETURNS VARCHAR (255) DETERMINISTIC
BEGIN
         DECLARE libraryuser INT;
    DECLARE u role VARCHAR(255);
    SELECT ID, user role INTO @libraryuser, u role FROM activeUsers WHERE username =
u username AND school ID = school AND (user role='teacher' OR user role='student');
    IF @libraryuser IS NULL THEN RETURN 'NO USER';
    END IF;
```

```
UPDATE Users SET verified=1 WHERE ID=@libraryuser;
    IF u role = 'teacher' THEN
                  UPDATE Review SET verified=1 WHERE user ID=@libraryuser;
    RETURN 'OK';
END//
DELIMITER ;
DELIMITER //
CREATE FUNCTION delete_user(school INT, u_username VARCHAR(255))
RETURNS VARCHAR (255) DETERMINISTIC
BEGIN
   SET @libraryuser = (SELECT ID FROM activeUsers WHERE username = u username AND
school ID = school AND (user role='teacher' OR user role='student'));
   IF @libraryuser IS NULL THEN RETURN 'NO USER';
    END IF;
    DELETE FROM Reservation WHERE user_ID=@libraryuser;
    UPDATE Book b JOIN Lending 1 ON 1.book ID=b.ID SET b.copies=b.copies+1 WHERE
1.user ID=@libraryuser AND 1.was returned at IS NULL;
   DELETE FROM Lending WHERE user ID=@libraryuser;
    DELETE FROM Review WHERE user ID=@libraryuser;
   DELETE FROM Users WHERE ID=@libraryuser;
   RETURN 'OK';
END//
DELIMITER ;
DELIMITER //
CREATE FUNCTION make review (book title VARCHAR (255), school INT, user INT, review
VARCHAR(255), rating FLOAT)
RETURNS VARCHAR (255) DETERMINISTIC
BEGIN
         SET @book = (SELECT ID FROM Book WHERE title = book title AND school ID =
school);
   IF @book IS NULL THEN RETURN 'NO BOOK'; END IF;
   IF (SELECT COUNT(*) FROM Lending WHERE user ID=user AND book ID=@book) = 0 THEN
                  RETURN 'NO LENDING';
    INSERT INTO Review (user ID, book ID, review, rating) VALUES (user, @book, review,
        RETURN 'OK';
END//
DELIMITER ;
DELIMITER //
CREATE EVENT cancel reservations_after_one_week
ON SCHEDULE EVERY 1 DAY
DO
BEGIN
    UPDATE Reservation
    SET canceled at = NOW(), reservation status=3
    WHERE request date <= DATE SUB(NOW(), INTERVAL 1 WEEK) AND reservation status=0
    OR pending reservation date <= DATE SUB(NOW(), INTERVAL 1 WEEK) AND
reservation status=1;
```

```
END //
DELIMITER ;
DELIMITER //
CREATE PROCEDURE get lendings by school (IN year param INT, IN month param INT)
BEGIN
    IF year param IS NULL AND month param IS NULL THEN
        SELECT s.school name, COUNT(1.book ID) as lendings
                   FROM School s
                   JOIN activeUsers u ON s.ID=u.school ID
                   LEFT JOIN Lending 1 ON l.user ID=u.ID
                   WHERE s.school active=1
                   GROUP BY s.school name;
    ELSEIF year param IS NULL AND month param IS NOT NULL THEN
        SELECT s.school name, COUNT(CASE WHEN MONTH(1.lending date) = month param THEN
1.book ID ELSE NULL END) as lendings
                   FROM School s
                   JOIN activeUsers u ON s.ID=u.school ID
                   LEFT JOIN Lending 1 ON l.user_ID=u.ID
                   WHERE s.school active=1
                   GROUP BY s.school name;
    ELSEIF year param IS NOT NULL AND month param IS NULL THEN
       SELECT s.school name, COUNT(CASE WHEN YEAR(1.lending date) = year param THEN
1.book ID ELSE NULL END) as lendings
                  FROM School s
                   JOIN activeUsers u ON s.ID=u.school ID
                   LEFT JOIN Lending 1 ON l.user ID=u.ID
                   WHERE s.school active=1
                   GROUP BY s.school name;
    ELSE
        SELECT s.school name, COUNT(CASE WHEN MONTH(1.lending date) = month param AND
YEAR(1.lending date) = year param THEN 1.book ID ELSE NULL END) as lendings
                   FROM School s
                   JOIN activeUsers u ON s.ID=u.school ID
                   LEFT JOIN Lending 1 ON l.user ID=u.ID
                   WHERE s.school active=1
                   GROUP BY s.school name;
    END IF;
END //
DELIMITER ;
DELIMITER //
CREATE PROCEDURE get writers teachers per genre(IN genre VARCHAR(255))
BEGIN
    SELECT DISTINCT u.username AS teacher
         FROM activeUsers u
         JOIN Lending 1 ON u.ID=1.user ID
         JOIN Genre g ON g.book ID=1.book ID
         WHERE u.user role='teacher' AND TIMESTAMPDIFF(YEAR, NOW(), 1.lending date)<1
AND g.genre=genre;
         SELECT DISTINCT CONCAT(w.first_name, '', w.last_name) AS writer
         FROM Writer w
         JOIN Writes wr ON wr.writer ID=w.ID
         JOIN Genre g ON wr.book ID=g.book ID
         JOIN School s ON s.school active=1
         JOIN Book b ON g.book ID=b.ID AND b.school ID=s.ID
```

```
WHERE g.genre=genre;
END //
DELIMITER ;
DELIMITER //
CREATE PROCEDURE get young teachers max books()
         WITH young teachers books AS (
                   SELECT u.username, COUNT(1.book ID) AS books
                   FROM activeUsers u
                   LEFT JOIN Lending 1 ON u.ID=1.user ID
                   WHERE u.user role='teacher' AND TIMESTAMPDIFF(YEAR, NOW(),
u.birth_date)<40
                   GROUP BY u.username
         SELECT username, books
         FROM young teachers books
         WHERE books = (
                   SELECT MAX (books)
                   FROM young teachers books
         );
END //
DELIMITER ;
DELIMITER //
CREATE PROCEDURE get writers no lendings()
BEGIN
         WITH writer lendings AS (
                   SELECT CONCAT(w.first name, ' ', w.last name) AS writer,
COUNT(1.book ID) AS lendings
                   FROM Writer w
                   LEFT JOIN Writes wr ON wr.writer ID=w.ID
                   LEFT JOIN Book b ON wr.book ID=b.ID
                   LEFT JOIN Lending 1 ON 1.book ID=b.ID
                   JOIN School s ON s.school active=1 AND b.school ID=s.ID
                   GROUP BY w.first_name, w.last_name
         SELECT writer
         FROM writer lendings
         WHERE lendings=0;
END //
DELIMITER ;
DELIMITER //
CREATE PROCEDURE get_schooladmins_same_lendings()
BEGIN
         WITH schooladmin lendings AS (
                   SELECT u.username, YEAR(l.lending date) AS year, COUNT(l.book ID)
AS lendings
                   FROM School s
                   JOIN activeUsers u ON u.school ID=s.ID
                   JOIN Book b ON b.school ID=s.ID
                   JOIN Lending 1 ON 1.book ID=b.ID
                   WHERE u.user role='school-admin'
                   GROUP BY u.username, YEAR(l.lending_date)
```

```
SELECT GROUP CONCAT(sc.username SEPARATOR ', ') AS schooladmins, sc.lendings
AS lendings, sc.year
        FROM schooladmin lendings sc
   WHERE sc.lendings > 20
         GROUP BY sc.lendings, sc.year
         HAVING COUNT(*) >= 2;
END //
DELIMITER ;
DELIMITER //
CREATE PROCEDURE get top3 genre pairs()
BEGIN
         SELECT gl.genre AS genre1, g2.genre AS genre2, COUNT(1.book ID) AS lendings
         FROM Genre g1
         JOIN Genre g2 ON g1.book ID=g2.book ID AND g1.genre<g2.genre
         LEFT JOIN Lending 1 ON gl.book ID=1.book ID
         GROUP BY gl.genre, g2.genre
         ORDER BY lendings DESC
         LIMIT 3;
END //
DELIMITER ;
DELIMITER //
CREATE PROCEDURE get_writers_5_less_than_max()
BEGIN
         WITH writer books AS (
                   SELECT CONCAT(w.first name, ' ', w.last name) AS writer,
COUNT (wr.book ID) AS books
                   FROM Writer w
                   JOIN Writes wr ON wr.writer ID=w.ID
                   GROUP BY w.first name, w.last name
                   ORDER BY books DESC
         max books AS (
                   SELECT books
                   FROM writer books
                   LIMIT 1
         SELECT w.writer, w.books
         FROM writer books w
         {f JOIN} max books m
         WHERE w.books<=m.books-5;
END //
DELIMITER ;
DELIMITER //
CREATE PROCEDURE get users delayed return(IN f name VARCHAR(255), IN 1 name
VARCHAR(255), IN delay days INT, IN school id INT)
BEGIN
    IF f name IS NULL AND 1 name IS NULL AND delay days IS NULL THEN
        SELECT b.title, u.username, CONCAT(u.first_name, ' ', u.last_name) AS
full_name, l.must_be_returned_at
                   FROM activeUsers u
                   JOIN Lending 1 ON u.ID=1.user ID
        JOIN Book b ON b.ID=1.book ID
```

```
WHERE 1.must be returned at <NOW() AND 1.was returned at IS NULL AND
u.school ID=school id;
   ELSEIF f name IS NOT NULL AND 1 name IS NULL AND delay days IS NULL THEN
        SELECT b.title, u.username, CONCAT(u.first name, ' ', u.last name) AS
full name, 1.must be returned at
                   FROM activeUsers u
                   JOIN Lending 1 ON u.ID=1.user ID
        JOIN Book b ON b.ID=1.book ID
                   WHERE 1.must be returned at <NOW() AND 1.was returned at IS NULL AND
u.school ID=school_id AND u.first_name=f_name;
    ELSEIF f name IS NULL AND 1 name IS NOT NULL AND delay days IS NULL THEN
        SELECT b.title, u.username, CONCAT(u.first name, ' ', u.last_name) AS
full name, 1.must be returned at
                  FROM activeUsers u
                   JOIN Lending 1 ON u.ID=1.user ID
        JOIN Book b ON b.ID=1.book ID
                   WHERE 1.must be returned at <NOW() AND 1.was returned at IS NULL AND
u.school ID=school id AND u.last name=1 name;
         ELSEIF f_name IS NULL AND l_name IS NULL AND delay_days IS NOT NULL THEN
                   SELECT b.title, u.username, CONCAT(u.first name, ' ', u.last name)
AS full name, 1.must be returned at
                  FROM activeUsers u
                   JOIN Lending 1 ON u.ID=1.user ID
        JOIN Book b ON b.ID=1.book ID
                  WHERE 1.must_be_returned_at<NOW() AND 1.was returned at IS NULL AND</pre>
u.school ID=school id AND TIMESTAMPDIFF(day, l.must be returned at, NOW())=delay days;
    ELSEIF f name IS NOT NULL AND 1 name IS NOT NULL AND delay days IS NULL THEN
                   SELECT b.title, u.username, CONCAT(u.first name, ' ', u.last name)
AS full name, l.must be returned at
                   FROM activeUsers u
                   JOIN Lending 1 ON u.ID=1.user ID
        JOIN Book b ON b.ID=1.book ID
                   WHERE 1.must be returned at <NOW() AND 1.was returned at IS NULL AND
u.school ID=school id AND u.first name=f name AND u.last name=l name;
    ELSEIF f name IS NOT NULL AND 1 name IS NULL AND delay days IS NOT NULL THEN
                   SELECT b.title, u.username, CONCAT(u.first name, ' ', u.last name)
AS full name, 1.must be returned at
                  FROM activeUsers u
                  JOIN Lending 1 ON u.ID=1.user_ID
        JOIN Book b ON b.ID=1.book ID
                   WHERE 1.must be returned at<NOW() AND 1.was returned at IS NULL AND
u.school ID=school id AND u.first name=f name AND TIMESTAMPDIFF(day,
1.must be returned at, NOW()) = delay days;
   ELSEIF f_name IS NULL AND l_name IS NOT NULL AND delay_days IS NOT NULL THEN
                   SELECT b.title, u.username, CONCAT(u.first name, ' ', u.last name)
AS full_name, l.must be returned at
                  FROM activeUsers u
                  JOIN Lending 1 ON u.ID=1.user ID
        JOIN Book b ON b.ID=1.book ID
                   WHERE 1.must be returned at NOW() AND 1.was returned at IS NULL AND
u.school ID=school id AND u.last name=1 name AND TIMESTAMPDIFF(day,
1.must be returned at, NOW()) = delay days;
    ELSE
        SELECT b.title, u.username, CONCAT(u.first name, ' ', u.last name) AS
full name, 1.must be returned at
                   FROM activeUsers u
                   JOIN Lending 1 ON u.ID=1.user ID
```

```
JOIN Book b ON b.ID=1.book ID
                   WHERE 1.must be returned at <NOW() AND 1.was returned at IS NULL AND
u.school ID=school id AND u.first name=f name AND u.last name=l name AND
TIMESTAMPDIFF(day, 1.must be returned at, NOW()) = delay days;
    END IF:
END //
DELIMITER ;
DELIMITER //
CREATE PROCEDURE get_avg_rating_per_genre_user(IN genre VARCHAR(255), IN full_name
VARCHAR(255), IN school id INT)
BEGIN
    IF genre IS NULL AND full name IS NULL THEN
        SELECT g.genre, ROUND (AVG (r.rating), 2) AS avg rating
                   FROM Genre q
                   JOIN Book b ON b.ID=g.book ID
                   JOIN Review r ON r.book ID=b.ID
                   JOIN activeUsers u ON u.ID=r.user ID AND u.school ID=school id
        WHERE r.verified=1
                   GROUP BY g.genre;
        SELECT u.username, CONCAT(u.first name, '', u.last name) AS full name,
ROUND (AVG (r.rating), 2) AS avg rating
                  FROM activeUsers u
                   JOIN Review r ON r.user_ID=u.ID AND u.school ID=school id
        WHERE r.verified=1
                   GROUP BY u.username, u.first name, u.last name;
    ELSEIF genre IS NOT NULL AND full name IS NULL THEN
        SELECT g.genre, ROUND (AVG (r.rating), 2) AS avg rating
                   FROM Genre g
                   JOIN Book b ON b.ID=g.book ID
                   JOIN Review r ON r.book ID=b.ID
                   JOIN activeUsers u ON u.ID=r.user ID AND u.school ID=school id
        WHERE g.genre=genre AND r.verified=1
                   GROUP BY g.genre;
        SELECT u.username, CONCAT(u.first name, '', u.last name) AS full name,
ROUND (AVG (r.rating), 2) AS avg rating
                   FROM Genre q
                   JOIN activeUsers u ON u.school ID=school id
                   JOIN Book b ON b.ID=g.book ID
                   JOIN Review r ON r.book ID=b.ID AND r.user ID=u.ID
        WHERE g.genre=genre AND r.verified=1
                  GROUP BY u.username, u.first_name, u.last_name;
         ELSEIF genre IS NULL AND full name IS NOT NULL THEN
                   SELECT u.username, CONCAT(u.first name, ' ', u.last name) AS
full name, g.genre, ROUND(AVG(r.rating), 2) AS avg rating
                  FROM Genre q
                   JOIN activeUsers u ON u.school ID=school id
                   JOIN Book b ON b.ID=g.book ID
                   JOIN Review r ON r.book ID=b.ID AND r.user ID=u.ID
        WHERE CONCAT(u.first_name, ' ', u.last_name)=full_name AND r.verified=1
                   GROUP BY g.genre, u.username, u.first_name, u.last_name;
        SELECT u.username, CONCAT(u.first name, ' ', u.last name) AS full name,
ROUND (AVG (r.rating), 2) AS avg rating
                   FROM activeUsers u
```

```
JOIN Review r ON r.user ID=u.ID AND u.school ID=school id
        WHERE CONCAT(u.first name, ' ', u.last name) = full name AND r.verified = 1
                   GROUP BY u.username, u.first name, u.last name;
    ELSE
       SELECT u.username, CONCAT(u.first name, ' ', u.last name) AS full name,
g.genre, ROUND (AVG (r.rating), 2) AS avg rating
                   FROM Genre q
                   JOIN activeUsers u ON u.school ID=school id
                   JOIN Book b ON b.ID=q.book ID
                   JOIN Review r ON r.book_ID=b.ID AND r.user_ID=u.ID
        WHERE g.genre=genre AND CONCAT(u.first_name, ' ', u.last_name)=full_name AND
r.verified=1
                   GROUP BY g.genre, u.username, u.first name, u.last name;
   END IF;
END //
DELIMITER ;
DELIMITER //
CREATE FUNCTION DelSchool(schoolID INT)
RETURNS VARCHAR (255) DETERMINISTIC
BEGIN
         IF (SELECT ID from School where ID = schoolID) IS NULL THEN
                   RETURN "NOT OK";
         ELSE
                   CREATE TEMPORARY TABLE delBooks (
                           book id INT PRIMARY KEY
                   );
                   CREATE TEMPORARY TABLE delWriters (
                            id INT AUTO INCREMENT PRIMARY KEY,
                            writer id INT
                   );
                   INSERT INTO delBooks(book id)
                   SELECT ID
                   FROM Book
                   WHERE school ID = schoolID;
                   INSERT INTO delWriters(writer id)
                   SELECT DISTINCT writer ID
                   FROM Writes
                   WHERE book ID IN (SELECT book id FROM delBooks);
                   DELETE FROM Reservation WHERE book ID IN (SELECT book id FROM
delBooks);
                   DELETE FROM Lending WHERE book_ID IN (SELECT book_id FROM
delBooks);
                   DELETE FROM Review WHERE book ID IN (SELECT book id FROM delBooks);
                   DELETE FROM Genre WHERE book ID IN (SELECT book id FROM delBooks);
                   DELETE FROM Writes WHERE book ID IN (SELECT book id FROM delBooks);
                   DELETE FROM Writer WHERE ID IN (SELECT writer id FROM delWriters
WHERE writer id NOT IN (SELECT writer ID FROM Writes));
                   DELETE FROM Book WHERE school ID=schoolID;
                   DELETE FROM Users WHERE school ID=schoolID;
                   DELETE FROM School WHERE ID=schoolID;
                   RETURN "OK";
         END IF;
```

```
END //
DELIMITER ;
DELIMITER //
CREATE PROCEDURE selectBooks (IN schoolID INT, IN title VARCHAR (255), IN genre
VARCHAR (255), IN writer VARCHAR (255), IN copies INT)
         CREATE TEMPORARY TABLE mywrites (
                   book id INT ,
                   writer_id int,
                   PRIMARY KEY(book_id, writer_id)
         );
         CREATE TEMPORARY TABLE Books (
                  book id INT PRIMARY KEY
         );
    IF title IS NULL AND genre IS NULL AND writer IS NULL AND copies IS NULL THEN
                   INSERT INTO Books(book id)
                   SELECT b.ID
                   FROM Book b
                   WHERE b.school ID = schoolID;
         ELSEIF title IS NOT NULL AND genre IS NULL AND writer IS NULL AND copies IS
NULL THEN
                   INSERT INTO Books(book id)
                   SELECT b.ID
                   FROM Book b
                   WHERE b.school ID = schoolID AND b.title = title;
         ELSEIF title IS NULL AND genre IS NOT NULL AND writer IS NULL AND copies IS
NULL THEN
                   INSERT INTO Books (book id)
                   SELECT b.ID
                   FROM Book b
        JOIN Genre g ON b.ID = g.book ID
                   WHERE b.school ID = schoolID AND g.genre = genre;
    ELSEIF title IS NULL AND genre IS NULL AND writer IS NOT NULL AND copies IS NULL
THEN
                   INSERT INTO Books (book id)
                   SELECT b.ID
                   FROM Book b
        JOIN Writes wr ON b.ID = wr.book_ID
        JOIN Writer w ON w.ID = wr.writer_ID
                   WHERE b.school_ID = schoolID AND CONCAT(W.first_name, ' ',
w.last name) = writer;
   ELSEIF title IS NULL AND genre IS NULL AND writer IS NULL AND copies IS NOT NULL
THEN
                   INSERT INTO Books (book id)
                   SELECT b.ID
                   FROM Book b
                   WHERE b.school_ID = schoolID AND b.copies = copies;
   ELSEIF title IS NOT NULL AND genre IS NOT NULL AND writer IS NULL AND copies IS
NULL THEN
                   INSERT INTO Books (book id)
                   SELECT b.ID
                   FROM Book b
        JOIN Genre g ON b.ID = g.book ID
                   WHERE b.school ID = schoolID AND b.title = title AND g.genre =
genre;
```

```
ELSEIF title IS NOT NULL AND genre IS NULL AND writer IS NOT NULL AND copies IS
NULL THEN
                   INSERT INTO Books (book id)
                   SELECT b.ID
                   FROM Book b
        JOIN Writes wr ON b.ID = wr.book ID
        JOIN Writer w ON w.ID = wr.writer ID
                   WHERE b.school ID = schoolID AND b.title = title AND
CONCAT(W.first name, ' ', w.last name) = writer;
   ELSEIF title IS NOT NULL AND genre IS NULL AND writer IS NULL AND copies IS NOT
NULL THEN
                   INSERT INTO Books (book id)
                   SELECT b. ID
                   FROM Book b
                   WHERE b.school ID = schoolID AND b.title = title AND b.copies =
copies;
    ELSEIF title IS NULL AND genre IS NOT NULL AND writer IS NOT NULL AND copies IS
NULL THEN
                   INSERT INTO Books(book_id)
                   SELECT b.ID
                  FROM Book b
        JOIN Writes wr ON b.ID = wr.book ID
        JOIN Writer w ON w.ID = wr.writer ID
        JOIN Genre g ON b.ID = g.book ID
                  WHERE b.school ID = schoolID AND CONCAT(W.first name, ' ',
w.last name) = writer AND g.genre = genre;
   ELSEIF title IS NULL AND genre IS NOT NULL AND writer IS NULL AND copies IS NOT
NULL THEN
                   INSERT INTO Books(book id)
                   SELECT b.ID
                   FROM Book b
        JOIN Genre g ON b.ID = g.book ID
                   WHERE b.school ID = schoolID AND b.copies = copies AND g.genre =
   ELSEIF title IS NULL AND genre IS NULL AND writer IS NOT NULL AND copies IS NOT
NULL THEN
                   INSERT INTO Books (book id)
                   SELECT b.ID
                  FROM Book b
        JOIN Writes wr ON b.ID = wr.book_ID
        JOIN Writer w ON w.ID = wr.writer_ID
                  WHERE b.school ID = schoolID AND b.copies = copies AND
CONCAT(W.first name, ' ', w.last name) = writer;
   ELSEIF title IS NOT NULL AND genre IS NOT NULL AND writer IS NOT NULL AND copies
IS NULL THEN
                   INSERT INTO Books (book id)
                   SELECT b.ID
                  FROM Book b
        JOIN Writes wr ON b.ID = wr.book ID
        JOIN Writer w ON w.ID = wr.writer ID
        JOIN Genre g ON b.ID = g.book ID
                   WHERE b.school_ID = schoolID AND CONCAT(W.first_name, ' ',
w.last name) = writer AND g.genre = genre AND b.title = title;
    ELSEIF title IS NOT NULL AND genre IS NOT NULL AND writer IS NULL AND copies IS
NOT NULL THEN
                   INSERT INTO Books(book id)
                   SELECT b.ID
```

```
FROM Book b
        JOIN Genre g ON b.ID = g.book ID
                  WHERE b.school ID = schoolID AND b.title = title AND b.copies =
copies AND g.genre = genre;
   ELSEIF title IS NOT NULL AND genre IS NULL AND writer IS NOT NULL AND copies IS
NOT NULL THEN
                   INSERT INTO Books (book id)
                   SELECT b.ID
                  FROM Book b
        JOIN Writes wr ON b.ID = wr.book ID
        JOIN Writer w ON w.ID = wr.writer ID
                   WHERE b.school ID = schoolID AND b.title = title AND b.copies =
copies AND CONCAT(W.first name, ' ', w.last name) = writer;
   ELSEIF title IS NULL AND genre IS NOT NULL AND writer IS NOT NULL AND copies IS
NOT NULL THEN
                   INSERT INTO Books(book id)
                   SELECT b.ID
                   FROM Book b
        JOIN Writes wr ON b.ID = wr.book ID
        JOIN Writer w ON w.ID = wr.writer ID
        JOIN Genre g ON b.ID = g.book ID
                   WHERE b.school ID = schoolID AND CONCAT(W.first name, '',
w.last name) = writer AND g.genre = genre AND b.copies = copies;
   ELSE
                   INSERT INTO Books (book id)
                   SELECT b.ID
                   FROM Book b
        JOIN Writes wr ON b.ID = wr.book ID
        JOIN Writer w ON w.ID = wr.writer ID
        JOIN Genre g ON b.ID = g.book ID
                   WHERE b.school ID = schoolID AND CONCAT (W.first name, ' ',
w.last name) = writer AND g.genre = genre AND b.title = title AND b.copies = copies;
         END IF;
         INSERT INTO mywrites(book id, writer id)
         SELECT book ID, writer ID
         FROM Writes
         WHERE book ID IN (SELECT book id FROM Books);
         SELECT b.ID, b.title, b.publisher, b.ISBN, b.page number, b.summary,
b.copies, b.image, b.lang, b.keywords, gen.genres, final.full names
         FROM Book b
         JOIN (SELECT g.book ID, GROUP CONCAT (g.genre SEPARATOR ", ") AS genres
                   FROM Genre a
                   WHERE g.book_ID IN (SELECT book_id FROM Books) GROUP BY g.book_ID)
AS gen
         ON b.ID = gen.book ID
         JOIN (SELECT sm.book id, GROUP CONCAT (full name SEPARATOR ", ") AS
full names
                   FROM (SELECT book id, CONCAT(first name, " ", last name) AS
full name
                   FROM (SELECT m.book_id, w.first_name, w.last_name
                            FROM mywrites m
                            JOIN writer w ON m.writer id = w.ID) AS books writers) AS
sm GROUP BY book id) AS final
         ON final.book id = b.ID;
```

```
END //
DELIMITER ;
DELIMITER //
CREATE PROCEDURE selectLendedBooks(IN userID INT)
BEGIN
         CREATE TEMPORARY TABLE mywrites (
                  book id INT ,
                  writer id int,
                   PRIMARY KEY(book_id, writer_id)
         CREATE TEMPORARY TABLE Books (
                  book id INT PRIMARY KEY
         );
    INSERT INTO Books(book id)
         SELECT b.ID
         FROM Book b
    JOIN Lending 1 ON b.ID = 1.book_ID
         WHERE l.user ID = userID;
         INSERT INTO mywrites(book id, writer id)
         SELECT book ID, writer ID
         FROM Writes
         WHERE book ID IN (SELECT book id FROM Books);
         SELECT b.ID, b.title, b.publisher, b.ISBN, b.page number, b.summary,
b.copies, b.image, b.lang, b.keywords, gen.genres, final.full names,
1.was returned at, 1.must be returned at, 1.lending date
         FROM Book b
    JOIN Lending 1 ON 1.book ID = b.ID
         JOIN (SELECT g.book_ID, GROUP_CONCAT(g.genre SEPARATOR ", ") AS genres
                   FROM Genre g
                   WHERE g.book ID IN (SELECT book id FROM Books) GROUP BY g.book ID)
AS gen
         ON b.ID = gen.book_ID
         JOIN (SELECT sm.book id, GROUP CONCAT(full name SEPARATOR ", ") AS
full names
                   FROM (SELECT book id, CONCAT(first name, " ", last name) AS
full name
                   FROM (SELECT m.book_id, w.first_name, w.last_name
                            FROM mywrites m
                            JOIN writer w ON m.writer id = w.ID) AS books writers) AS
sm GROUP BY book_id) AS final
        ON final.book_id = b.ID;
END //
DELIMITER ;
DELIMITER //
CREATE PROCEDURE extract names genre(IN name string VARCHAR(255), IN genre string
VARCHAR(255), IN book id INT)
BEGIN
         DECLARE str1 VARCHAR (255);
         DECLARE sub str1 VARCHAR(255);
         DECLARE str2 VARCHAR(255);
         DECLARE sub str2 VARCHAR(255);
```

```
DECLARE f name VARCHAR (255);
         DECLARE 1 name VARCHAR(255);
         DECLARE writer id INT;
         SET str1 = name string;
         SET str2 = genre string;
         WHILE (SELECT LENGTH(str1)) > 0 DO
                   SET sub str1 = (SELECT SUBSTRING INDEX(str1, ",", 1));
                   SET f_name = (SELECT SUBSTRING_INDEX(sub_str1, " ", 1));
                   SET l_name = (SELECT SUBSTRING_INDEX(sub_str1, " ", -1));
                   SET writer id = (SELECT ID FROM writer WHERE first name = f name
AND last name = 1 name);
                  IF (writer id) IS NULL THEN
                            INSERT INTO writer (first name, last name) VALUES
(f name, l name);
                            SET writer id = (SELECT ID FROM writer WHERE ID =
LAST INSERT ID());
                   END IF;
                   INSERT INTO writes (writer ID, book ID) VALUES (writer id,
book id);
                  SET str1 = (SELECT REPLACE(str1, (SELECT CONCAT("", sub str1,
",")), ""));
         END WHILE;
         WHILE (SELECT LENGTH(str2)) > 0 DO
                   SET sub str2 = (SELECT SUBSTRING INDEX(str2, ",", 1));
                   INSERT INTO genre(book ID, genre) VALUES (book id, sub str2);
                   SET str2 = (SELECT REPLACE(str2, (SELECT CONCAT("", sub str2,
",")), ""));
        END WHILE;
END //
DELIMITER ;
DELIMITER //
CREATE FUNCTION UpdateBook(bookID INT, schoolID INT, publisher_ VARCHAR(255), ISBN_
VARCHAR(255), page number INT, summary VARCHAR(255), copies INT, image
VARCHAR(255), lang VARCHAR(255), keywords VARCHAR(255))
RETURNS VARCHAR (255) DETERMINISTIC
         DECLARE schID INT;
         SELECT school ID INTO schID FROM Book WHERE ID = bookID AND school ID =
         IF schID IS NULL THEN RETURN "NO BOOK";
         ELSE
                   CREATE TEMPORARY TABLE delWriters (
                           writerid INT PRIMARY KEY
                   INSERT INTO delWriters(writerid)
                   SELECT DISTINCT writer_ID
                   FROM writes
                   WHERE book_ID = bookID;
                   UPDATE Book
                  SET publisher = publisher , ISBN = ISBN , page number =
page number , summary = summary , copies = copies , image = image , lang = lang ,
keywords = keywords
```

```
WHERE ID = bookID;
                   DELETE FROM writes WHERE book ID = bookID;
                   DELETE FROM writer WHERE ID IN (SELECT writerid FROM delWriters
WHERE writerid NOT IN (SELECT writer ID FROM writes ));
                   DELETE FROM genre WHERE book ID = bookID;
                   RETURN "OK";
        END IF;
END //
DELIMITER ;
DELIMITER //
CREATE FUNCTION DelBook (bookID INT, userSchID INT)
RETURNS VARCHAR (255) DETERMINISTIC
         DECLARE schID INT;
         SELECT school ID INTO schID FROM book WHERE ID = bookID AND school ID =
userSchID;
         IF schid is null then return "NO BOOK";
         ELSE
                   CREATE TEMPORARY TABLE delWriters (
                            writerid INT PRIMARY KEY
                   INSERT INTO delWriters(writerid)
                   SELECT DISTINCT writer ID
                   FROM writes
                   WHERE book ID = bookID;
                   DELETE FROM writes WHERE book ID = bookID;
                   DELETE FROM writer WHERE ID IN (SELECT writerid FROM delWriters
WHERE writerid NOT IN (SELECT writer ID FROM writes ));
                   DELETE FROM reservation WHERE book ID = bookID;
                   DELETE FROM lending WHERE book ID = bookID;
                   DELETE FROM review WHERE book ID = bookID;
                   DELETE FROM genre WHERE book ID = bookID;
                   DELETE FROM book WHERE ID = bookID;
                   RETURN "OK";
         END IF;
END //
DELIMITER ;
DML
INSERT INTO School (school name, address, city, phone, email, principal) VALUES
('Schmidt PLC', '63838 White Mountain Suite 614
Port Michael, MA 68135', 'Port Laura', '158-563-3037', 'graymichael@example.org',
'Elizabeth Ortega');
INSERT INTO School (school_name, address, city, phone, email, principal) VALUES
('Rubio-Mitchell', '93588 Joseph View Suite 450
Lake Joshua, MD 74998', 'Dorothyview', '(297)109-3272', 'michael13@example.com',
'Linda Martin');
```

INSERT INTO School (school name, address, city, phone, email, principal) VALUES

('James LLC', '334 Aaron Vista

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Lake Shirley, CA 85095', 'Tylerton', '001-381-619-1864x819', 'melissa13@example.org',
'Meredith Gomez'):
INSERT INTO Book (title, publisher, ISBN, page number, summary, copies, image, lang,
keywords, school ID) VALUES
('Early pressure air.', 'Holmes, Gay and Baxter', '978-1-56847-352-9', 219, 'Night
tree yes establish recent allow rock describe. Hotel take someone lose.
Financial decade notice address not this. Thousand everybody new six unit detail
name.', 6, 'https://picsum.photos/143/469', 'iu', 'foreign, character, face,
magazine, foreign', 3),
('Hold window toward.', 'Hernandez-Goodwin', '978-0-903283-48-9', 250, 'Pass them
long. Probably issue check far candidate.
Note similar property kind cultural.
Cup actually TV need impact win. Sure answer mother apply.
Protect detail black whether be summer imagine.', 0, 'https://picsum.photos/389/658',
'pl', 'ok, head, wide, might, per', 2),
('Four media treatment.', 'Bailey, Martin and Adkins', '978-1-4950-5361-0', 945,
'Community of measure join. Prepare campaign environmental American information until.
Gun teacher there bed growth.
Customer author only country money so those citizen. Although police experience book
them cell choice. View least such imagine.', 6, 'https://placekitten.com/538/806',
'sc', 'voice, sure, morning, left, by', 3),
('Truth play customer let window.', 'Morales LLC', '978-1-59312-684-1', 468, 'Body
since person mind attack former whom. Doctor matter push fast at evidence them. Show
well physical may tonight.
Just meet two member piece after. Letter always resource save board treat fear less.',
4, 'https://placekitten.com/807/517', 'eu', 'attack, decision, least, black,
beautiful', 2),
('Identify quickly law.', 'Santos Inc', '978-0-07-667932-4', 572, 'Under between
toward entire water boy. Forward often radio fish.
Know something data cover deal heart media song.
Song couple main clear benefit avoid. Spend consumer these decision any Mr have.', 8,
'https://placekitten.com/971/982', 'he', 'less, staff, personal, before, general', 2),
('Around team reveal.', 'Bryant-Olson', '978-0-8000-8121-8', 377, 'Cell customer
affect set stock study. Green century another son.
Doctor personal here unit state. Foot too sea.
Subject his thank food traditional beautiful. Stay view song yourself. Approach health
beyond staff executive.', 5, 'https://picsum.photos/59/352', 'lzh', 'between,
responsibility, eat, admit, choose', 3),
('Assume adult similar.', 'Farrell-Richardson', '978-0-05-965538-3', 950, 'Expect send
agency official so change discuss. Beautiful serious off blue. Bring year rule middle
daughter serve capital.
Community according time anything mother. Table kind support think.', 9,
'https://dummyimage.com/960x262', 'nso', 'speak, nice, who, audience, produce', 1),
('Off cultural site.', 'Murphy and Sons', '978-0-512-54728-6', 836, 'If page option
white get choose. Feeling great social always put. So country food around
call apply.
Result represent worry production end successful including. Center to the when. Career
staff floor within personal he.', 3, 'https://picsum.photos/53/944', 'wa', 'top,
billion, star, answer, south', 3),
('Sea according.', 'Pitts, Gray and Little', '978-1-4322-3187-3', 212, 'Street within
stock avoid rate. Might very interest perhaps agree rich mention.
Entire member word understand billion carry. Century heart already player. Lawyer
serious management experience region radio wife.', 3,
'https://placekitten.com/451/629', 'hr', 'section, part, clear, beautiful, drug', 2),
('Want near.', 'Kim, Austin and Vasquez', '978-0-9919419-9-5', 816, 'Improve man keep
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bit. Help ask direction interesting. Soon important world board begin product mission.

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Present analysis service expert least stuff boy sure. A minute store end high interest
eat who.', 8, 'https://placekitten.com/479/358', 'dz', 'line, several,
risk, wife, certainly', 1),
('Investment suffer first happy.', 'Mitchell-Thompson', '978-1-4062-8735-6', 242,
'Appear single two discuss. Station around create type specific author six watch. Food
kitchen attorney world can week.
Put save development responsibility interview. A all rise example away deal.', 5,
'https://picsum.photos/100/7', 'qu', 'probably, here, range, consumer, relationship',
('Surface drop century.', 'Martinez, Hurst and Montgomery', '978-1-4654-8932-6', 829,
'Candidate hope just full food issue wall. Eat yeah read arrive cold trouble nation.
Reduce chair use.
Senior account play account him find. Bar hour maybe happy whether ahead. Show happy
laugh occur high.', 9, 'https://placekitten.com/407/636', 'wae', 'take, performance,
before, consider, minute', 1),
('What environment.', 'Sharp LLC', '978-0-274-02920-4', 388, 'Least market once. Year
human according baby reflect data audience by.
Develop news mother their surface account decide toward.
Section southern young occur financial few social up. Turn sound who hair again.
Administration response someone debate.', 9, 'https://picsum.photos/107/628', 'th',
'feel, child, relate, with, front', 1),
('Again step town.', 'Michael and Sons', '978-1-84345-801-2', 286, 'Line difficult
really son serve. Simple despite cup staff wrong speak. Television true recognize
today.
Themselves sort hundred simply. Development church hour social recently picture.', 8,
'https://placekitten.com/1023/277', 'gez', 'me, role, me, whole, simple', 2),
('Develop well.', 'Zuniga and Sons', '978-0-7201-0564-3', 360, 'Job surface area.
Community kitchen miss particular finish control result.
Capital whatever despite understand produce two case available. Help red conference
space statement.
Ago nothing those prevent. Him much especially tell top up.', 0,
'https://picsum.photos/1003/565', 'mi', 'child, and, security, already, just', 3),
('Recently free scene.', 'Williams-Richardson', '978-1-56965-630-3', 596, 'Board away
type worry himself head door. Some significant sing operation company. You which
capital spend hour.
Yes food care. Respond well air. You military why worry page might.', 8,
'https://dummyimage.com/273x637', 'kn', 'hospital, air, maintain, wait, street', 3),
('South rule four heavy continue.', 'Myers-Hogan', '978-1-02-981361-1', 155, 'Smile
money five manage. Alone turn likely challenge western few store.
Dog somebody necessary people. Thing tonight relate wind shoulder practice. Leave
treat yeah treatment cut street half.
Break that already. Mention available rock guy why.', 9,
'https://picsum.photos/304/955', 'nl', 'surface, follow, before, your, director', 2),
('Over discuss design ball individual.', 'King PLC', '978-0-02-988596-3', 990, 'Treat
dinner economic six father town. Thank item suddenly know record PM. Majority letter
quite lot us.
As occur certainly former. Indeed despite laugh leg.', 0,
'https://dummyimage.com/343x52', 'tk', 'walk, treat, arrive, down, specific', 2),
('Learn never issue child.', 'Acosta-Ellis', '978-0-8356-5348-0', 120, 'Baby admit
seven off economy fast. I land end once. Operation agent some it couple.
Usually determine energy share. Cell region reason detail tree it method. Against cell
career wind talk choose ability. Both become car likely whole fund himself near.', 3,
'https://placekitten.com/758/242', 'am', 'everything, drug, actually, street, allow',
('Why lot science central.', 'Tucker PLC', '978-1-175-58340-6', 420, 'Nature here
commercial sit. Follow better heavy chair education. Century customer gun control
party mouth.
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Each offer sing according particularly character four. Effort half education offer
century.', 0, 'https://dummyimage.com/623x195', 'th', 'pretty, east, artist, same,
put', 2),
('Management employee environmental himself.', 'Roman, Cannon and Leonard', '978-0-16-
486680-3', 705, 'Maintain share power kid water order when. Decade work
drive technology operation over generation.
Early goal prevent hit ever. Action address for value area gas once. Country wall fall
three later hour. Allow loss into support arm.', 6, 'https://dummyimage.com/748x539',
'tt', 'program, buy, shake, cover, build', 3),
('Offer money candidate pattern.', 'Smith, Hurst and Smith', '978-1-69783-066-8', 341,
'She deep president where many. Resource center east room work toward.
Me physical around however wait themselves must. Early eat south water. Gas end agency
understand east yeah. Seek certainly again drop record.', 5,
'https://placekitten.com/419/435', 'mk', 'human, side, find, investment, raise', 1),
('Use security mission interview.', 'Ramos PLC', '978-0-513-67796-8', 83, 'Threat
everybody I protect relationship. Subject stage institution real bag. Bill wear born
subject never beyond.
Meeting teacher politics method hold any ground two. Factor everyone threat here test
husband. Time position show mention ball.', 7, 'https://picsum.photos/329/1012', 'zu',
'field, in, break, campaign, treatment', 2),
('No record great special bit.', 'Williams-Ramirez', '978-0-85798-995-6', 60, 'White
dinner either radio station treatment. Stage yeah treat art yes. Her pretty remember.
Three while full. Traditional blood recent risk manager.
Make increase professor perhaps behind training. Space Republican bad rest control
indeed speech.', 1, 'https://picsum.photos/11/852', 'ga', 'set, office, ready, TV,
different', 2),
('Shoulder small rest.', 'James-Gordon', '978-1-941017-23-4', 58, 'Significant quickly
any purpose person experience. Receive have glass politics former fine
military.
Certainly matter level left. Scientist team audience score. Work world at produce.
Data guy statement policy recently protect.', 0, 'https://picsum.photos/464/428',
'ja', 'behind, use, recent, message, cost', 3),
('Fill receive all article.', 'Griffith-Baker', '978-1-86036-108-1', 660, 'Author low
begin nor everyone admit. Industry explain glass the use amount. Whatever north my
use.
Account lead describe young whom majority. Finish never just where responsibility
each. Standard value entire song notice.', 10, 'https://picsum.photos/352/36', 'lv',
'consider, option, three, degree, him', 3),
('Who about.', 'Doyle-Zamora', '978-0-604-01151-0', 860, 'Cut scene defense table
second increase floor. Half significant can deal.
Water training pattern southern. Make shake exactly.
Beautiful next significant. Whole really begin do. Happy fly star.', 3,
'https://dummyimage.com/1011x884', 'ig', 'structure, they, hour, raise, cut', 3),
('Central dog.', 'Garza-Campbell', '978-0-87205-692-3', 245, 'Between sister according
onto. Discussion pay church thing. Measure lose economic buy realize.
Herself wide nature need plant face participant. Child usually interview professional.
Easy cup social method production.', 0, 'https://dummyimage.com/257x386', 'yi', 'hold,
knowledge, important, suggest, decision', 2),
('Forget election.', 'Garcia LLC', '978-0-9517787-4-6', 863, 'You small approach field
drive according. Federal assume series sing place citizen.
Picture plant only service involve condition. Able shake approach. Anyone that stay
card three than action.
Ago food involve how high. Recognize power four chair.', 5,
'https://picsum.photos/801/807', 'an', 'approach, art, wrong, success, like', 1),
('Answer else be sport open.', 'Petty, Lewis and Hernandez', '978-1-70488-989-4', 844,
'Artist part worker first fly plan religious. Cost table interesting.
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Require between bag nothing appear. Kitchen image reality window. Administration lead
safe toward a.', 0, 'https://dummyimage.com/322x651', 'ja', 'move, carry, institution,
everybody, cell', 2),
('Message owner old guy behavior.', 'Perez, Armstrong and Jones', '978-0-250-36302-5',
935, 'Risk source true our particular exactly. Write these process mind lawyer relate.
Item recognize resource defense statement.
Dinner election dinner fish our weight citizen them. Wonder off charge movie right
environmental.', 4, 'https://picsum.photos/605/178', 'zu', 'benefit, program, thank,
heavy, do', 2),
('Gas enough board.', 'Snyder Group', '978-1-348-48039-6', 846, 'True generation
election news mouth. Hospital by western serious charge.
Give staff can avoid forget always right main. Another few close history scene but
talk.', 4, 'https://picsum.photos/123/466', 'uk', 'tend, responsibility, local, her,
build', 3),
('Too south rather.', 'Vincent, Stafford and Anderson', '978-0-17-956272-1', 509,
'Manage enough reach success. Fall sea live yeah travel apply budget bank.
Girl free risk professional try imagine trip. Song because left. Kind young sometimes
home so. Successful tend same energy player.', 10, 'https://dummyimage.com/181x782',
'tig', 'accept, space, hope, area, buy', 2),
('Direction local.', 'Miller-Hardin', '978-0-05-115476-1', 713, 'Turn face reach
letter Mrs see shake. Wear establish majority president born natural yourself detail.
Majority behavior form quickly fact run could range.
Such become position. Sure because skin with.', 9, 'https://dummyimage.com/658x158',
'iw', 'born, health, our, item, answer', 1),
('Such note early.', 'Coleman-Smith', '978-1-221-61890-8', 624, 'Middle by party
probably good stay nearly. Send citizen how increase.
Its everybody although professional garden. Movie treatment heart war.
Fine bank race power. Support difference them until.', 8,
'https://placekitten.com/758/3', 'en', 'less, bit, answer, trial, rise', 2),
('Including line machine yes.', 'Malone-Jones', '978-1-134-06541-7', 811, 'Business
make environmental step late nothing ability fund. Network example song this write.
One lay perhaps quickly maintain. Man within use affect.
Too after prepare three lead. Cultural million through happen relationship.', 6,
'https://picsum.photos/104/425', 'lt', 'tax, then, gas, clearly, event', 3),
('Paper collection.', 'Johnson Ltd', '978-0-530-87317-6', 925, 'Network executive
better ball power. Small discover specific do quality. Bank almost nor.
Cup ready pull seat. Product air conference successful international. Tonight pass bag
pass book week relate.', 1, 'https://placekitten.com/1003/906', 'dv', 'respond, open,
none, modern, mind', 2),
('Baby hit drop.', 'Medina-Dalton', '978-1-84731-099-6', 103, 'Chance become away idea
tend establish. Such others yes me. List I take artist.
Grow most difference once suffer. American just oil as.
Quite race news agreement. Likely yes international however couple glass state. Skin
door morning open try.', 2, 'https://placekitten.com/827/586', 'tl', 'according, talk,
coach, cut, if', 3),
('Unit life chance total.', 'Sawyer Ltd', '978-0-7716-5238-7', 418, 'Sit form manage.
Break believe analysis present actually prove. Too interest pressure sure city stop
create.
Example sit them them among truth station. Television add short interesting available
return loss. Moment become election word policy.', 4,
'https://placekitten.com/451/59', 'el', 'kitchen, great, capital, even, dream', 1),
('Help science against seven.', 'Travis-Garza', '978-1-5190-9739-2', 66, 'Parent
threat democratic Mr ago focus. Alone very office gas.
Day section reduce benefit book however ask. Grow finally Republican surface far
meet.', 5, 'https://dummyimage.com/51x758', 'se', 'police, develop, build, step,
matter', 1),
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('Black husband.', 'Phillips-King', '978-1-192-59847-6', 93, 'Bit many arm throughout
conference. Recent political teach media someone threat right.
Mean leave mission item. Fill street sport exist green.
Economy end friend within. Clear degree able blood responsibility meet. Clear weight
fill a someone.', 5, 'https://dummyimage.com/788x367', 'ss', 'miss, dream, of, white,
which', 1),
('Material soon wall member.', 'Oliver-Lopez', '978-0-578-21948-6', 184, 'Into do age
no. Floor day middle management draw. Begin yet top effect. Today above
but effort officer whose.
Force move charge way determine Mr old.
Writer something factor amount decade. Animal player claim yourself.', 9,
'https://picsum.photos/1008/930', 'tl', 'response, song, well, behind, job', 2),
('During indeed point pretty.', 'Simmons Ltd', '978-0-07-323587-5', 795, 'Building
argue who. When floor level blue. Fill gas fine less often.
Short environment treat tree. Model various land beautiful world four billion. Future
culture all.', 2, 'https://placekitten.com/930/645', 'lij', 'return, clearly, eat,
young, song', 3),
('Method bill group member course.', 'Stewart, Young and Carroll', '978-1-4643-3124-
4', 608, 'Price perform want design very subject. Source others good including involve
wish teacher. Together evidence herself that man guy.
Mission develop significant in. Option always thousand check.', 7,
'https://placekitten.com/258/621', 'tcy', 'be, middle, heart, feel, feeling', 1),
('Nothing question cost along country.', 'Green-Wright', '978-0-89327-416-0', 569,
'Gas society specific beyond we hold no. Occur simply box structure space camera.
Little explain trade operation hospital.
Others chance goal believe and population.', 0, 'https://picsum.photos/679/525',
'sid', 'mouth, put, meeting, staff, perform', 1),
('Since majority major.', 'Lee LLC', '978-0-7222-9038-5', 896, 'Side any report
painting already have first. Charge sing program research money area set. Marriage
born new pay health use. Top choose employee executive.', 10,
'https://placekitten.com/400/537', 'pa', 'that, sing, member, within, attack', 1),
('Cup staff today.', 'Walls-Callahan', '978-0-909290-67-2', 80, 'Medical third watch
still where. Culture middle particular impact plan soldier with training. Those
computer speak home.
Building less these despite ten. International maybe practice outside school. Term
baby rule subject available compare.', 8, 'https://picsum.photos/919/272',
'mhr', 'leave, since, life, live, break', 1),
('Describe own possible office.', 'Hughes, Johnson and Cooper', '978-0-905791-17-3',
296, 'Spring else attention receive ball. Laugh why describe meeting. Any might
Especially would run radio try close. Beat party evening tell technology long sister.
Make fast strategy adult put investment second model.', 0,
'https://picsum.photos/920/77', 'pa', 'street, condition, along, young, in', 3),
('Receive and center.', 'Brown-Savage', '978-1-114-22315-8', 421, 'Military strategy
charge worker under blue. Standard newspaper wonder Mrs once. Factor course professor
population represent assume affect.', 6, 'https://dummyimage.com/964x363', 'nso',
'room, though, smile, official, inside', 2),
('Computer morning police.', 'White, Mcgee and Carson', '978-1-218-99383-4', 525,
'Daughter official cut wall.
Now go them argue. Face need so lay. Section avoid interest.
Approach go challenge if fund also. Minute quickly team phone we.
Could less lawyer add. Key future check watch various job.', 0,
'https://dummyimage.com/370x824', 'tn', 'professional, north, gun, claim, cell', 1),
('Leave friend compare.', 'Parker Group', '978-0-09-471796-1', 964, 'Spend sort
actually say on one heavy. Republican difference character mission many of. Stuff
general than tell still play.
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Election after reveal anyone. Find protect couple election choice these fine. Enjoy
will idea source everybody piece my.', 8, 'https://placekitten.com/652/782', 'mt',
'main, result, treat, become, foot', 2),
('All final become involve.', 'Rodriquez, Ayala and Mccall', '978-1-72211-885-3', 937,
'Fly church without way space who chair. What blood sign out line produce admit
professional.
Present significant environmental rock. Two clear way own. Yet sometimes without site
onto.', 7, 'https://dummyimage.com/89x1007', 'lv', 'trade, hundred, possible, film,
stop', 3),
('Worry energy four participant evening.', 'Cox, Delgado and Smith', '978-1-56759-500-
0', 659, 'Weight media what anyone poor could. That single speech begin
significant. Spend his and over manage white measure.
Structure need personal. Nation seek good talk. Produce morning wide me successful
reveal night.', 7, 'https://picsum.photos/294/130', 'shs', 'pull, measure,
professor, dinner, benefit', 3),
('Property generation crime send.', 'Christian Ltd', '978-0-01-462956-5', 487, 'Live
executive project Democrat item. Power issue treatment water real west. Song spend
begin fly offer.
Bed enter sport star.
Allow specific sense ball. Occur establish size work cause. Interest program security
what north draw.', 4, 'https://dummyimage.com/74x624', 'shs', 'east, around, west,
foot, information', 2),
('Consider hard against as.', 'Juarez-White', '978-1-4272-6538-8', 126, 'Result tell
be both. Turn might argue not word property news structure.
Talk stuff much traditional detail eight standard become. Activity his oil magazine
manage.', 9, 'https://placekitten.com/904/546', 'eu', 'rest, Mrs, hotel, successful,
drop', 3),
('Measure data hundred office happen.', 'Owen-Robinson', '978-1-366-81920-8', 327,
'Sing their tonight event. Him add along be along floor. Class wind past set write
while.
Economic have near available surface without ask. Rather beat mouth answer music
likely create eat.', 2, 'https://placekitten.com/252/869', 'tn', 'go, then,
participant, wrong, easy', 2),
('Discover computer feel.', 'Sanchez, Jordan and Santos', '978-1-327-91495-9', 490,
'Anything they until live share effort eat. Onto growth center present discover real.
Apply teacher memory most present address single.
Person ahead accept. Brother class old either agree thousand. Common consider explain
finish.', 6, 'https://dummyimage.com/289x504', 'en', 'Congress, table, state, take,
indicate', 1),
('Grow store hard yes vote.', 'Serrano-Branch', '978-0-11-208164-7', 445, 'Others
recent situation forget. Manage recently range agent here.
Physical debate kind moment name just president. None quickly follow why. While
responsibility behavior determine them make.', 5, 'https://placekitten.com/714/225',
'sv', 'create, bed, voice, away, happen', 2),
('Themselves make relationship.', 'Boyd-Cervantes', '978-1-5382-7623-5', 308, 'Buy
politics medical financial. Alone question phone they senior ever. Far movement
themselves choice significant five.
Rise as she. Thousand but me huge coach then animal office.', 5,
'https://placekitten.com/675/454', 'mg', 'and, reality, quickly, best, consider', 2),
('Feeling three hot firm.', 'Brown, George and Thomas', '978-0-301-82003-3', 635,
'Yourself property international foot step. Could director garden that. Throughout
blood interesting against.
Mission big nor about.
Team news world general evidence. Almost remain work officer since ever room
protect.', 6, 'https://dummyimage.com/455x695', 'ky', 'I, fish, country, voice, pass',
3),
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may type. Cup technology certain buy run personal choice career.
Plan value guy point. Almost event speak perhaps catch somebody turn. Surface party
five cold finish.', 6, 'https://placekitten.com/464/72', 'nso', 'meeting,
run, floor, the, woman', 3),
('Bed country eat receive.', 'Taylor-Lindsey', '978-1-9730-0525-4', 683, 'Various now
employee exactly people join. Me view whatever hand positive point main
effort. Participant stop of item.
Service common church against agent total. None administration later series candidate
floor.', 5, 'https://placekitten.com/196/510', 'lij', 'wonder, light, capital,
cultural, how', 2),
('Develop high born.', 'Brooks-Brown', '978-0-86273-969-0', 83, 'Short system thing
plant mean poor. Past investment loss hour view build occur.
Shake along strong agree yard. How song information here season.
Stay table each rate reason.', 2, 'https://dummyimage.com/733x243', 'ru', 'good,
small, police, firm, movie', 2),
('Fall all reveal girl.', 'Mason PLC', '978-1-86819-331-8', 907, 'Own common level
only leave must who result. Report miss member give relate early.
Image responsibility onto article page. Describe maintain we himself successful. Their
drug well drug local son. Management consumer law.', 1,
'https://picsum.photos/388/351', 'fa', 'president, source, war, what, move', 1),
('Safe letter particularly expert.', 'Barnes, Martin and Reilly', '978-0-581-81565-1',
505, 'Artist thought take sell stop ready. Attorney lead fear part something. Civil
third white medical. Reduce hour simple move institution.', 3,
'https://picsum.photos/220/750', 'se', 'chair, leader, example, ago, green', 2),
('Support sit evidence.', 'Dodson Group', '978-1-79825-909-2', 497, 'Performance week
send than maybe he admit end. Pm million despite voice. Relate actually
contain sport.
Catch current Mrs herself hold interview marriage. Western cost similar what weight.
Late agent industry outside actually.', 9, 'https://placekitten.com/230/838', 'mt',
'concern, hold, network, recognize, budget', 3),
('Cup subject result be.', 'Delgado, Petersen and Stein', '978-1-78883-609-8', 927,
'Statement certainly join store. Tree type buy shake employee who. Very beat remain
participant she however.
Federal hand price during all walk. Eight reflect reflect although space. Lawyer
themselves lay allow success.', 7, 'https://placekitten.com/893/969', 'ru', 'next,
see, determine, who, similar', 1),
('Population music even end.', 'Guerra, Soto and Barnett', '978-1-08-119234-1', 827,
'Store song those college level reason. Strategy lead light leave instead less doctor.
Show week professional door degree. Tree it there street let follow. Institution
himself share police.', 9, 'https://picsum.photos/530/459', 'hr', 'down, along,
knowledge, magazine, area', 3),
('Represent federal structure.', 'Henderson, Mcgee and Contreras', '978-0-219-43267-
0', 930, 'Do sell network usually first practice later. Major image scientist save
near rich claim. Building hospital pretty still though game far. Prove attorney
provide cost interesting third.', 7, 'https://dummyimage.com/350x102', 'lb', 'admit,
if, teach, participant, meeting', 1),
('Power tonight.', 'Garcia-Walker', '978-1-79951-795-5', 726, 'Suffer them have
employee much size drop. Still court east have. Face might worry of forget.
Rather reveal have evening until treat.
Sell agent camera nice start training. Away nor inside admit guy. Remain involve wrong
especially.', 10, 'https://placekitten.com/643/650', 'mni', 'finally, animal, party,
foot, statement', 1),
('Fire decide age resource begin.', 'Cook-Wolf', '978-1-58249-313-8', 462, 'Standard
teach attorney defense leave individual nation work. Since head live a in. Tv meeting
picture here. Husband listen team what.
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('Win as.', 'Smith PLC', '978-1-197-22175-1', 1000, 'East dark decision. Part artist

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special.', 7, 'https://dummyimage.com/20x917', 'ht', 'market, mission, themselves,
week, instead', 1),
('Inside story test pretty.', 'Gonzalez, Dixon and Moreno', '978-0-283-25434-5', 94,
'Itself close should. Agreement character save popular source chance.
Respond camera under top understand factor have economy. Billion imagine require
scientist view hair management. Team very tell agent. Color more mind interest else
yard.', 6, 'https://dummyimage.com/295x789', 'cs', 'current, certain, hair, medical,
claim', 3),
('Scientist old attention wide.', 'Wise, Horton and Thomas', '978-0-649-99026-9', 903,
'Behind international provide again. Food rich certainly whom girl may
meeting. Sister sound vote throw throw million.
Western opportunity large worker require stand. Remain word major answer.', 7,
'https://dummyimage.com/152x612', 'szl', 'both, clearly, strong, bit, together', 3),
('Article stage study game.', 'Owens-Potter', '978-0-538-61546-4', 608, 'Grow piece
according while house but. Realize development effort us recently. Space reality
benefit.
Well until none employee prevent writer dinner. Order yeah century special month.', 8,
'https://placekitten.com/806/516', 'brx', 'surface, thus, station, member, start', 1),
('Simple boy each language.', 'Turner PLC', '978-1-186-24137-1', 862, 'Political hotel
campaign suddenly vote. Garden where wide exactly grow per. Rise discuss now well.
Relate customer ask site keep.', 2, 'https://picsum.photos/50/201', 'so', 'specific,
find, most, thing, any', 1),
('Field actually wrong.', 'Turner-Rubio', '978-1-947971-12-7', 755, 'Official far cut
mention only challenge such.
Positive family often thus product. Lot energy fly energy go power.
Might these put our. Company amount start option mind activity. Itself western quite
position decide. Student themselves measure lot.', 10, 'https://picsum.photos/781/55',
'af', 'our, television, thing, painting, young', 2),
('Attack science office.', 'Avila LLC', '978-0-85166-579-5', 507, 'Reduce money finish
dark management.
Service admit parent rule perhaps animal. Officer discuss minute hope than.
Girl police factor cell center.
Population create relationship similar. Bed all fact about management benefit.', 6,
'https://dummyimage.com/451x171', 'ta', 'describe, himself, fire, direction, member',
('Interview tend movement.', 'Williams Inc', '978-1-332-84517-0', 360, 'There about
man religious hear mention. Cup quickly opportunity stand.
Decision music purpose.
Task join plan new get many early. Describe hotel ready support wear meet continue.',
6, 'https://dummyimage.com/823x66', 'gu', 'student, list, offer, democratic, another',
('Kind fill.', 'Torres-Pollard', '978-1-962972-88-8', 486, 'Do across include upon.
Morning field most happy structure certainly eye life. Spring him possible require
Run consumer small follow way speech. Explain usually and.
Decision another present laugh. Interesting boy staff marriage white art someone.', 9,
'https://dummyimage.com/500x203', 'ig', 'here, eight, model, shoulder,
('Third quality finally politics consumer.', 'Brown-Knapp', '978-0-335-11224-1', 161,
'Land provide either range seven. House power with say hot. No know run
discuss whom similar.
Yeah fish let fear two. Federal us front particular still by walk property. Sport
thought individual style baby term.', 4, 'https://dummyimage.com/895x516', 'kw',
'reduce, life, bar, according, true', 3),
('Woman authority away.', 'Porter, Williams and Cordova', '978-1-4602-0286-9', 591,
'Low beyond catch husband team get many.
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Race whose sea hospital probably point. Walk along police protect data along

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Pick exist condition cost side him. Individual once popular network join throughout.
Performance service find process. Actually future chair office few cut. Although fear
thousand.', 6, 'https://picsum.photos/506/117', 'ug', 'book, serious, year, air,
customer', 3),
('Week hair case.', 'Mendoza Group', '978-1-03-844296-3', 525, 'Strategy create dinner
suggest left process. Thought public young recent. Lead imagine cultural run whole.
Others treatment your per. Save help much note rather hot. Night first somebody
control southern. Only require benefit far get both practice act.', 5,
'https://dummyimage.com/167x942', 'iu', 'tend, foot, walk, half, on', 2),
('Important should feeling.', 'Carpenter LLC', '978-1-4598-9313-9', 306, 'Why create
white drug learn require wear. Surface take also war community car month
allow.
Under while today able white. Finish question subject various recognize event region.
Reality I exist memory task.', 0, 'https://placekitten.com/328/882', 'se', 'center,
water, international, report, white', 1),
('Dog car around.', 'Lambert, Barnes and Castillo', '978-1-81743-705-0', 644, 'Begin
star rich skin series focus seven. Poor knowledge pass understand yeah.
Despite ball herself art. Never matter few thing and politics. Doctor yard approach
whole along certain central.', 5, 'https://dummyimage.com/500x48', 'pa', 'evidence,
plant, trouble, far, leader', 2),
('Office team thus.', 'Stevenson, Walton and Kim', '978-0-488-57555-9', 360, 'Walk
trip music check. Newspaper our bill.
From message debate option later fill what. House third court fill. Sound assume
somebody point section though usually look.
Smile beyond end speech. Why subject generation hold economy.', 8,
'https://placekitten.com/598/266', 'sk', 'young, them, wrong, start, worker', 1),
('Company sing modern part.', 'Williams Ltd', '978-1-08-234451-0', 885, 'Throw group
later prove smile. Respond however likely fire whose picture. Particular
director east know deal why.
Finish full despite recognize. According cover much scene small. Almost job mission
nor.', 4, 'https://placekitten.com/57/275', 'bo', 'share, different, despite, develop,
policy', 3),
('Father crime American clearly act.', 'Webb and Sons', '978-0-373-43930-0', 355,
'These recognize lawyer option mouth serious. Admit before level expect week office
else say. Statement set region sell between. Another police model business.
Performance join respond radio. Team memory his worry station.', 9,
'https://placekitten.com/610/432', 'id', 'through, born, large, both, ago', 1),
('Drive could reason.', 'Martin, Brown and Cameron', '978-1-968257-19-4', 726, 'Chance
leader attention. Step research third respond recently young. Catch exist high.
Expert language admit green oil. Leader within wife TV idea simply throw. Spend create
fast drop add growth up.
Pressure ok business car. Take official group.', 6, 'https://dummyimage.com/165x218',
'mhr', 'American, born, follow, see, home', 1),
('Whether water body really.', 'Garcia, Sherman and Hicks', '978-0-17-752558-2', 903,
'Standard growth action mind. Manager animal point new father art art themselves.
Message all myself century though. Establish tough worry sell benefit. Particularly
within doctor husband.', 6, 'https://dummyimage.com/284x237', 'pl', 'run,
side, what, interview, training', 2),
('Fire college question artist.', 'Chaney-Murphy', '978-1-262-88844-5', 920, 'Great
film too message.
Medical civil appear relationship economic. Mean baby hotel study. Sense fly million
first.
Owner head leg price table generation picture. Must language role her walk black.
Already white laugh paper six change represent price.', 8,
'https://picsum.photos/47/177', 'mag', 'page, small, report, attention, detail', 2),
('Later blood great baby.', 'Barr, Phelps and Bennett', '978-1-7339729-2-5', 697,
'West much lawyer meeting.
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Officer network position true either hot beyond keep. Matter hard instead. Hard plant
land former. People but hot policy garden weight might.
Politics write over wish itself.
Take major play before.', 7, 'https://placekitten.com/366/289', 'as', 'why, because,
herself, change, left', 2),
('Result Democrat film idea.', 'Fields, Parker and Miller', '978-1-204-91609-0', 665,
'Five plant with news successful current serve receive. Study serve little soldier
worker. Hard wrong prepare section late between.
Out situation machine arrive focus. Water glass beyond yourself second.', 5,
'https://placekitten.com/311/705', 'ko', 'family, take, military, head, finally', 1),
('This employee turn.', 'Salazar, Wright and Lawrence', '978-0-287-16668-2', 124, 'If
area do. Environmental social paper until friend this performance. Both
note mind within president appear.
Dinner a position similar detail everyone suddenly. Form people decide the of. Prove
eight condition.', 8, 'https://dummyimage.com/210x69', 'sid', 'hundred, simple, scene,
key, month', 1),
('Fine administration fine set.', 'Mcdonald, Lopez and Beltran', '978-1-4620-9260-4',
690, 'Ok all crime. Build enter war event development mouth.
Special painting light agency. Eat senior lose full music require ability. Watch where
property year by learn.
Social focus course get.', 3, 'https://placekitten.com/501/808', 'ml', 'enter,
available, suggest, else, simple', 3),
('Already say.', 'Cooper PLC', '978-1-70436-538-1', 553, 'Change attack member born
better. Occur above recently raise threat. Quite family attorney either his.
Music successful more where its. At thousand financial general fall open. When most
ago design room sit doctor.', 10, 'https://picsum.photos/330/0', 'yo', 'represent,
she, voice, imagine, three', 2),
('Measure PM season eye soldier.', 'Morse-Hill', '978-1-880429-59-4', 189, 'All foot
add. Must practice many third peace speak. State fill opportunity safe any same
speech. Cultural decide first.
Majority democratic yes. Huge material politics state professor clear.', 10,
'https://picsum.photos/826/923', 'om', 'share, strong, wall, little, action', 1),('Boy
card.', 'Johnson LLC', '978-1-66531-058-1', 358, 'Inside best life participant none
involve. Name truth then. Lay response brother hundred. Here organization law leg
especially final.
Year hear laugh on. Control general TV a free wish respond night. Food understand own
build mouth partner.', 4, 'https://dummyimage.com/9x542', 'dv', 'six, seek, cultural,
note, down', 1),
('Perhaps look billion.', 'Coleman-Pena', '978-0-255-49948-4', 620, 'Pull wrong talk
simply run he without. For detail garden type. Others from your build.
Woman history visit sea. Report two company this foot big.', 1,
'https://picsum.photos/480/199', 'tg', 'have, who, large, benefit, teach', 2),
('Human purpose.', 'Holland PLC', '978-1-990747-15-1', 406, 'Investment season nature
fund result share. Successful until garden father stay. Operation here may value.
Budget gun ten fact site important huge. Deep bad myself.', 0,
'https://dummyimage.com/353x77', 'mai', 'quite, blood, president, thousand, goal', 3),
('Hope per some indicate.', 'Schneider Ltd', '978-1-954135-44-4', 216, 'Job door
message nor. Truth choice why especially other run.
Guy could you main. Past bag probably speak.
Drop order clearly radio suddenly. Billion fear assume enjoy grow. School particular
lawyer word class cut truth.', 10, 'https://picsum.photos/230/999', 'ka', 'author,
over, those, though, chance', 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date) VALUES ('superadmin', 'test1234', 'super-admin', 'Super', 'Admin', '1975-
06-23');
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INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('schooladmin1', 'test1234', 'school-admin',
'Mason', 'Evans', '1980-12-03', 1, 0);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('schooladmin2', 'test1234', 'school-admin',
'Bonnie', 'Olsen', '1973-01-12', 2, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('schooladmin3', 'test1234', 'school-admin',
'Suzanne', 'Bishop', '1977-08-27', 3, 1);
INSERT INTO Users (username, user_password, user_role, first_name, last_name,
birth date, school ID, verified) VALUES ('teacher1', 'test1234', 'teacher',
'Veronica', 'Curtis', '1985-07-22', 2, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('teacher2', 'test1234', 'teacher', 'Daniel',
'Allen', '1990-10-12', 1, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('teacher3', 'test1234', 'teacher', 'Brenda',
'Stone', '1970-05-04', 2, 1);
INSERT INTO Users (username, user_password, user_role, first_name, last_name,
birth date, school ID, verified) VALUES ('teacher4', 'test1234', 'teacher', 'Karen',
'Brown', '1968-09-28', 2, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('teacher5', 'test1234', 'teacher', 'Bryan',
'Moore', '1983-01-20', 3, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('teacher6', 'test1234', 'teacher', 'Janice',
'Morrison', '1987-09-15', 2, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('teacher7', 'test1234', 'teacher', 'Zachary',
'Richardson', '1995-06-06', 1, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('teacher8', 'test1234', 'teacher', 'Kelly',
'Harris', '1972-02-26', 1, 1);
INSERT INTO Users (username, user_password, user role, first name, last name,
birth date, school ID, verified) VALUES ('teacher9', 'test1234', 'teacher', 'Curtis',
'White', '1979-11-22', 3, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('teacher10', 'test1234', 'teacher',
'Vanessa', 'Wallace', '1960-05-21', 3, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('student1', 'test1234', 'student', 'Tracy',
'Castillo', '2005-07-23', 2, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('student2', 'test1234', 'student', 'John',
'Briggs', '2006-03-16', 2, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('student3', 'test1234', 'student', 'Steven',
'Carter', '2007-04-19', 2, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID) VALUES ('student4', 'test1234', 'student', 'John', 'Murphy',
'2008-07-21', 1);
INSERT INTO Users (username, user_password, user_role, first_name, last_name,
birth date, school ID, verified) VALUES ('student5', 'test1234', 'student', 'Amy',
'Sharp', '2009-02-17', 2, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('student6', 'test1234', 'student', 'Gregory',
'Walters', '2010-07-17', 1, 1);
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INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('student7', 'test1234', 'student', 'Alex',
'Johnson', '2005-11-12', 1, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('student8', 'test1234', 'student',
'Margaret', 'Wagner', '2006-06-24', 2, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('student9', 'test1234', 'student', 'Olivia',
'Murphy', '2007-09-18', 3, 1);
INSERT INTO Users (username, user_password, user_role, first_name, last_name,
birth date, school ID, verified) VALUES ('student10', 'test1234', 'student', 'Dawn',
'Elliott', '2008-05-30', 3, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('student11', 'test1234', 'student',
'Jessica', 'Medina', '2009-10-08', 1, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth_date, school_ID, verified) VALUES ('student12', 'test1234', 'student', 'Donna',
'Guzman', '2009-07-30', 3, 1);
INSERT INTO Users (username, user_password, user_role, first_name, last_name,
birth date, school ID, verified) VALUES ('student13', 'test1234', 'student', 'Ana',
'Daugherty', '2006-05-05', 3, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('student14', 'test1234', 'student', 'Dawn',
'Rowe', '2006-11-19', 2, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('student15', 'test1234', 'student', 'Nicole',
'Johnson', '2005-10-04', 2, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('student16', 'test1234', 'student', 'Corey',
'Hodges', '2007-11-28', 2, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('student17', 'test1234', 'student',
'Jeffrey', 'Lewis', '2008-09-09', 2, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('student18', 'test1234', 'student',
'Roberto', 'Gonzalez', '2009-07-14', 2, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('student19', 'test1234', 'student', 'Karen',
'Miller', '2010-05-10', 3, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('student20', 'test1234', 'student', 'Mary',
'Holt', '2008-03-08', 1, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('student21', 'test1234', 'student', 'Joseph',
'Daniels', '2010-07-21', 2, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('student22', 'test1234', 'student', 'Thomas',
'Gonzalez', '2005-07-22', 2, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('student23', 'test1234', 'student', 'Daniel',
'Sullivan', '2007-05-01', 1, 1);
INSERT INTO Users (username, user_password, user_role, first_name, last_name,
birth date, school ID, verified) VALUES ('student24', 'test1234', 'student', 'Eric',
'Taylor', '2007-07-19', 1, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('student25', 'test1234', 'student',
'Jessica', 'Rodgers', '2007-06-04', 2, 1);
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INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID, verified) VALUES ('student26', 'test1234', 'student', 'Karen',
'Stephens', '2005-08-25', 2, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth_date, school_ID, verified) VALUES ('student27', 'test1234', 'student', 'Kyle',
'Campos', '2009-04-29', 2, 1);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID) VALUES ('student28', 'test1234', 'student', 'James',
'Williams', '2008-09-21', 3);
INSERT INTO Users (username, user_password, user_role, first_name, last_name,
birth date, school ID) VALUES ('student29', 'test1234', 'student', 'Ryan', 'Snow',
'2010-10-15', 2);
INSERT INTO Users (username, user password, user role, first name, last name,
birth date, school ID) VALUES ('student30', 'test1234', 'student', 'Ashley', 'Smith',
'2007-11-09', 3);
INSERT INTO Writer (first name, last name) VALUES ('Jennifer', 'Adams'); INSERT INTO
Writer (first name, last name) VALUES ('Jason', 'Williams'); INSERT INTO
Writer (first_name, last_name) VALUES ('Ronald', 'Fox'); INSERT INTO Writer
(first name, last name) VALUES ('Erica', 'Wood'); INSERT INTO Writer (first name,
last name) VALUES ('Sharon', 'Mosley'); INSERT INTO Writer (first name, last name)
VALUES ('Nathan', 'Ramos'); INSERT INTO Writer (first name, last name) VALUES
('Rebecca', 'Anderson'); INSERT INTO Writer (first name, last name) VALUES ('Vanessa',
'Bautista'); INSERT INTO Writer (first name, last name) VALUES ('Samuel', 'Arroyo');
INSERT INTO Writer (first name, last name) VALUES ('Scott', 'Ward'); INSERT INTO
Writer (first name, last name) VALUES ('Emily', 'Curry'); INSERT INTO Writer
(first name, last name) VALUES ('Jessica', 'Gomez'); INSERT INTO Writer (first name,
last name) VALUES ('Daniel', 'Hicks'); INSERT INTO Writer (first name, last name)
VALUES ('Tara', 'Taylor'); INSERT INTO Writer (first name, last name) VALUES ('Terri',
'Peck'); INSERT INTO Writer (first name, last name) VALUES ('Alicia', 'Jones'); INSERT
INTO Writer (first name, last name) VALUES ('Michelle', 'Mayo'); INSERT INTO Writer
(first name, last name) VALUES ('Jeffrey', 'Lee'); INSERT INTO Writer (first name,
last name) VALUES ('Timothy', 'Fernandez'); INSERT INTO Writer (first name, last name)
VALUES ('Nicholas',
'Tucker'); INSERT INTO Writer (first name, last name) VALUES ('Kristi', 'Carney');
INSERT INTO Writer (first name, last name) VALUES ('Scott', 'Benson'); INSERT INTO
Writer (first name, last name) VALUES ('Jason', 'Rice'); INSERT INTO Writer
(first name, last name) VALUES ('Kathleen', 'Campos'); INSERT INTO Writer
(first name, last name) VALUES ('Karen', 'Trujillo'); INSERT INTO Writer (first name,
last name) VALUES ('Stephanie', 'Stone'); INSERT INTO Writer (first name, last name)
VALUES ('Larry', 'Graham'); INSERT INTO Writer (first name, last name) VALUES
('Maria', 'Huber'); INSERT INTO Writer (first name, last name) VALUES ('Shane',
'Scott'); INSERT INTO Writer (first name, last name) VALUES ('Benjamin', 'Martin');
INSERT INTO Writer (first_name, last_name) VALUES ('Leah', 'Morrow'); INSERT INTO
Writer (first name, last name) VALUES ('Shaun', 'Meyer'); INSERT INTO Writer
(first name, last name) VALUES ('Sydney', 'Murphy'); INSERT
INTO Writer (first name, last name) VALUES ('Clayton', 'Patel'); INSERT INTO Writer
(first name, last name) VALUES ('Jonathan', 'Schwartz'); INSERT INTO Writer
(first name, last name) VALUES ('Rachel', 'Snyder'); INSERT INTO Writer (first name,
last name) VALUES ('Heidi', 'Moore'); INSERT INTO Writer (first name, last name)
VALUES ('Gene', 'Delgado'); INSERT INTO Writer (first name, last name) VALUES
('Nancy', 'Miller'); INSERT INTO Writer (first name, last name) VALUES ('Mario',
'Fleming'); INSERT INTO Writer (first name, last name) VALUES ('Jesse', 'Taylor');
INSERT INTO Writer (first name, last name) VALUES ('Peter', 'Peck'); INSERT INTO
Writer (first name, last name) VALUES ('Joshua', 'Jackson'); INSERT INTO Writer
(first name, last name) VALUES ('Joyce', 'Jackson'); INSERT INTO Writer (first name,
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last name) VALUES ('Patrick', 'Parker'); INSERT INTO Writer (first name, last name)
VALUES ('Michelle', 'Suarez'); INSERT INTO Writer
(first name, last name) VALUES ('Marissa', 'Ramirez'); INSERT INTO Writer (first name,
last name) VALUES ('Michael', 'Cross'); INSERT INTO Writer (first name, last name)
VALUES ('Joseph', 'Cohen'); INSERT INTO Writer (first name, last name) VALUES
('Anthony', 'Moore'); INSERT INTO Writer (first name, last name) VALUES ('Andrea',
'Camacho'); INSERT INTO Writer (first name, last name) VALUES ('Michael', 'Dixon');
INSERT INTO Writer (first name, last name) VALUES ('Kristina', 'Miller'); INSERT INTO
Writer (first name, last name) VALUES ('Robert', 'Morales'); INSERT INTO Writer
(first name, last name) VALUES ('Becky', 'Smith');
INSERT INTO Writer (first name, last name) VALUES ('Emma', 'Rose'); INSERT INTO Writer
(first name, last name) VALUES ('Michael', 'Anderson'); INSERT INTO Writer
(first name, last name) VALUES ('Frank', 'Jennings'); INSERT INTO Writer (first name,
last name) VALUES ('Peggy', 'Sutton'); INSERT INTO Writer (first name, last name)
VALUES ('Christopher', 'Lozano'); INSERT INTO Writer (first name, last name) VALUES
('Derek', 'Robinson'); INSERT INTO Writer (first name, last name) VALUES ('Cameron',
'Wright'); INSERT INTO Writer (first name, last name) VALUES ('David', 'Baker');
INSERT INTO Writer (first_name, last name) VALUES ('Kevin', 'Graham'); INSERT INTO
Writer (first_name, last_name) VALUES ('Brett', 'Robinson'); INSERT INTO Writer
(first name, last name) VALUES ('Jean', 'Patrick'); INSERT INTO Writer (first name,
last name) VALUES ('Kevin', 'Wong'); INSERT INTO Writer (first name, last name) VALUES
('Jessica', 'Hunter'); INSERT INTO Writer (first name, last name) VALUES ('Geoffrey',
'Ortiz'); INSERT INTO Writer (first name, last name) VALUES ('Robert', 'Maldonado');
INSERT INTO Writer (first name, last name) VALUES ('Diane', 'Johnson'); INSERT INTO
Writer (first name, last name) VALUES ('Leslie', 'Henry'); INSERT INTO Writer
(first name, last name) VALUES ('Rachel', 'Delgado'); INSERT INTO Writer (first name,
last name) VALUES ('Tammy', 'Adams'); INSERT INTO Writer (first name, last name)
VALUES ('Kristen', 'White'); INSERT INTO Writer (first name, last name) VALUES
('Samantha', 'Orr'); INSERT INTO Writer (first name, last name) VALUES ('Sandra',
'Keller'); INSERT INTO Writer (first name, last name) VALUES ('Michael', 'Newman');
INSERT INTO Writer (first name, last name) VALUES ('Robin', 'Allen'); INSERT INTO
Writer (first name, last name) VALUES ('Kathleen', 'Jackson'); INSERT INTO Writer
(first name, last name) VALUES ('Daniel', 'Collins'); INSERT INTO Writer
(first_name, last_name) VALUES ('Sandra', 'Burke'); INSERT INTO Writer (first name,
last name) VALUES ('Lisa', 'Krueger'); INSERT INTO Writer (first name, last name)
VALUES ('Bradley', 'Perez'); INSERT INTO Writer (first name, last name) VALUES
('Christopher', 'Boyle'); INSERT INTO Writer (first name, last name) VALUES ('Cathy',
'Rodriguez'); INSERT INTO Writer (first name, last name) VALUES ('Stephanie', 'Cox');
INSERT INTO Writer (first name, last name) VALUES ('Greg', 'Frazier'); INSERT INTO
Writer (first name, last name) VALUES ('Carly', 'Kelley'); INSERT INTO Writer
(first_name, last_name) VALUES ('Martin', 'Smith'); INSERT INTO Writer (first_name,
last name) VALUES ('Thomas', 'Cobb'); INSERT INTO Writer (first name, last name)
VALUES ('Spencer', 'Smith'); INSERT INTO Writer (first name, last name) VALUES
('Chloe', 'Reynolds'); INSERT INTO Writer (first_name, last_name) VALUES ('Nicholas',
'Wilson'); INSERT INTO Writer (first name, last name) VALUES ('Shawn', 'Brown');
INSERT INTO Writer (first name, last name) VALUES ('Jason', 'Frost'); INSERT INTO
Writer (first name, last name) VALUES ('Adam', 'Herrera'); INSERT INTO Writer
(first name, last name) VALUES ('Ashley', 'Shaw'); INSERT INTO Writer (first name,
last name) VALUES ('Karen', 'Jackson'); INSERT INTO Writer (first name, last name)
VALUES ('Joshua', 'Fisher'); INSERT INTO Writes (writer ID, book ID) VALUES (42, 1);
INSERT INTO Writes (writer ID, book ID) VALUES (52, 1); INSERT INTO Writes (writer ID,
book ID) VALUES (23, 1); INSERT INTO Writes (writer ID, book ID) VALUES (1, 1); INSERT
INTO Writes (writer ID, book ID) VALUES (5, 1); INSERT INTO Writes (writer ID,
book ID) VALUES (39, 1); INSERT INTO Genre (book ID, genre) VALUES (1, 'Drama');
INSERT INTO Genre (book ID, genre) VALUES (1, 'Horror'); INSERT INTO Genre (book ID,
genre) VALUES (1, 'Business');
INSERT INTO Writes (writer ID, book ID) VALUES (93, 8);
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INSERT INTO Writes (writer ID, book ID) VALUES (97, 8);
INSERT INTO Writes (writer ID, book ID) VALUES (98, 2); INSERT INTO Writes (writer ID,
book ID) VALUES (85, 2); INSERT INTO Writes (writer ID, book ID) VALUES (26, 2);
INSERT INTO Writes (writer ID, book ID) VALUES (54, 2); INSERT INTO Writes (writer ID,
book ID) VALUES (61, 2); INSERT INTO Genre (book ID, genre) VALUES (2, 'Art'); INSERT
INTO Genre (book ID, genre) VALUES (2, 'Travel'); INSERT INTO Genre (book ID, genre)
VALUES (2, 'Comics');
INSERT INTO Writes (writer ID, book ID) VALUES (7, 3); INSERT INTO Writes (writer ID,
book ID) VALUES (89, 3); INSERT INTO Genre (book ID, genre) VALUES (3, 'Horror');
INSERT INTO Genre (book_ID, genre) VALUES (3, 'Business'); INSERT INTO Genre (book_ID,
genre) VALUES (3, 'Cooking');
INSERT INTO Writes (writer ID, book ID) VALUES (27, 4); INSERT INTO Genre (book ID,
genre) VALUES (4, 'Historical fiction');
INSERT INTO Writes (writer ID, book ID) VALUES (54, 5); INSERT INTO Writes (writer ID,
book ID) VALUES (22, 5); INSERT INTO Writes (writer ID, book ID) VALUES (82, 5);
INSERT INTO Genre (book ID, genre) VALUES (5, 'Historical fiction'); INSERT INTO Genre
(book ID, genre) VALUES (5, 'Children literature');
INSERT INTO Writes (writer ID, book ID) VALUES (29, 6); INSERT INTO Writes (writer ID,
book_ID) VALUES (64, 6); INSERT INTO Writes (writer_ID, book_ID) VALUES (66, 6);
INSERT INTO Writes (writer ID, book ID) VALUES (30, 6); INSERT INTO Writes (writer ID,
book ID) VALUES (27, 6); INSERT INTO Genre (book ID, genre) VALUES (6, 'Art'); INSERT
INTO Genre (book ID, genre) VALUES (6, 'Business'); INSERT INTO Genre (book ID, genre)
VALUES (6, 'Mystery');
INSERT INTO Writes (writer ID, book ID) VALUES (19, 7); INSERT INTO Writes (writer ID,
book ID) VALUES (58, 7); INSERT INTO Genre (book ID, genre) VALUES (7,
'Western');
INSERT INTO Writes (writer_ID, book_ID) VALUES (9, 8); INSERT INTO Writes (writer_ID,
book ID) VALUES (81, 8); INSERT INTO Writes (writer ID, book ID) VALUES
(8, 8); INSERT INTO Writes (writer ID, book ID) VALUES (76, 8); INSERT INTO Writes
(writer ID, book ID) VALUES (15, 8); INSERT INTO Writes (writer ID, book ID) VALUES
(17, 8); INSERT INTO Genre (book ID, genre) VALUES (8, 'Horror'); INSERT INTO Genre
(book ID, genre) VALUES (8, 'Drama'); INSERT INTO Genre (book_ID, genre) VALUES (8,
'Science fiction');
INSERT INTO Writes (writer ID, book ID) VALUES (31, 9); INSERT INTO Writes (writer ID,
book ID) VALUES (52, 9); INSERT INTO Writes (writer ID, book ID) VALUES (61, 9);
INSERT INTO Genre (book_ID, genre) VALUES (9, 'Memoir');
INSERT INTO Writes (writer ID, book ID) VALUES (73, 10); INSERT INTO Genre (book ID,
genre) VALUES (10, 'Memoir'); INSERT INTO Genre (book ID, genre) VALUES (10,
'Travel');
INSERT INTO Writes (writer ID, book ID) VALUES (17, 11); INSERT INTO Writes
(writer ID, book ID) VALUES (28, 11); INSERT INTO Writes (writer ID, book ID) VALUES
(31, 11); INSERT INTO Writes (writer_ID, book_ID) VALUES (3, 11); INSERT INTO Writes
(writer ID, book ID) VALUES (68, 11); INSERT INTO Genre (book ID, genre) VALUES (11,
'Romance'); INSERT INTO Genre (book_ID, genre) VALUES (11, 'Science fiction'); INSERT
INTO Genre (book_ID, genre) VALUES (11, 'Horror');
INSERT INTO Writes (writer ID, book ID) VALUES (17, 12); INSERT INTO Writes
(writer ID, book ID) VALUES (25, 12); INSERT INTO Writes (writer ID, book ID) VALUES
(15, 12); INSERT INTO Writes (writer ID, book ID) VALUES (74, 12); INSERT INTO Genre
(book ID, genre) VALUES (12, 'Western'); INSERT INTO Genre (book ID, genre) VALUES
(12, 'Comics'); INSERT INTO Genre (book ID, genre) VALUES (12, 'Horror');
INSERT INTO Writes (writer ID, book ID) VALUES (48, 13); INSERT INTO Genre (book ID,
genre) VALUES (13, 'Drama');
INSERT INTO Writes (writer_ID, book_ID) VALUES (58, 14); INSERT INTO Writes
(writer ID, book ID) VALUES (41, 14); INSERT INTO Genre (book ID, genre) VALUES (14,
'Travel'); INSERT INTO Genre (book ID, genre) VALUES (14, 'Cooking');
INSERT INTO Writes (writer ID, book ID) VALUES (79, 15); INSERT INTO Writes
(writer ID, book ID) VALUES (77, 15); INSERT INTO Writes (writer ID, book ID) VALUES
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(71, 15); INSERT INTO Genre (book ID, genre) VALUES (15, 'Romance'); INSERT INTO Genre
(book ID, genre) VALUES (15, 'Cooking'); INSERT INTO Genre (book ID, genre) VALUES
(15, 'Memoir');
INSERT INTO Writes (writer ID, book ID) VALUES (23, 16); INSERT INTO Genre (book ID,
genre) VALUES (16, 'Cooking'); INSERT INTO Genre (book ID, genre) VALUES
(16, 'Romance'); INSERT INTO Genre (book ID, genre) VALUES (16, 'Travel');
INSERT INTO Writes (writer ID, book ID) VALUES (1, 17); INSERT INTO Genre (book ID,
genre) VALUES (17, 'Travel');
INSERT INTO Writes (writer ID, book ID) VALUES (98, 18); INSERT INTO Writes
(writer ID, book ID) VALUES (28, 18); INSERT INTO Writes (writer ID, book ID) VALUES
(23, 18); INSERT INTO Writes (writer_ID, book_ID) VALUES (32, 18); INSERT INTO Writes
(writer ID, book ID) VALUES (10, 18); INSERT INTO Writes (writer ID,
book ID) VALUES (31, 18); INSERT INTO Genre (book ID, genre) VALUES (18, 'Art');
INSERT INTO Writes (writer ID, book ID) VALUES (49, 19); INSERT INTO Writes
(writer ID, book ID) VALUES (40, 19); INSERT INTO Writes (writer ID, book ID) VALUES
(83, 19); INSERT INTO Writes (writer ID, book ID) VALUES (46, 19); INSERT INTO Genre
(book ID, genre) VALUES (19, 'Cooking'); INSERT INTO Genre (book ID, genre) VALUES
(19, 'Mystery');
INSERT INTO Writes (writer_ID, book_ID) VALUES (19, 20); INSERT INTO Writes
(writer ID, book ID) VALUES (96, 20); INSERT INTO Writes (writer ID, book ID) VALUES
(62, 20); INSERT INTO Writes (writer ID, book ID) VALUES (34, 20); INSERT INTO Writes
(writer ID, book ID) VALUES (25, 20); INSERT INTO Genre (book ID, genre) VALUES (20,
'Thriller'); INSERT INTO Genre (book ID, genre) VALUES (20, 'Western');
INSERT INTO Writes (writer ID, book ID) VALUES (47, 21); INSERT INTO Writes
(writer ID, book ID) VALUES (89, 21); INSERT INTO Genre (book ID, genre) VALUES (21,
'Horror'); INSERT INTO Genre (book ID, genre) VALUES (21, 'Comics'); INSERT INTO Genre
(book ID, genre) VALUES (21, 'Memoir');
INSERT INTO Writes (writer ID, book ID) VALUES (74, 22); INSERT INTO Genre (book ID,
genre) VALUES (22, 'Western');
INSERT INTO Writes (writer ID, book ID) VALUES (27, 23); INSERT INTO Writes
(writer ID, book ID) VALUES (22, 23); INSERT INTO Writes (writer ID, book ID) VALUES
(42, 23); INSERT INTO Genre (book ID, genre) VALUES (23, 'Art');
INSERT INTO Writes (writer ID, book ID) VALUES (84, 24); INSERT INTO Writes
(writer ID, book ID) VALUES (67, 24); INSERT INTO Genre (book ID, genre) VALUES (24,
'Children literature'); INSERT INTO Genre (book ID, genre) VALUES (24, 'Science
fiction');
INSERT INTO Writes (writer ID, book ID) VALUES (91, 25); INSERT INTO Writes
(writer ID, book ID) VALUES (24, 25); INSERT INTO Writes (writer ID, book ID) VALUES
(76, 25); INSERT INTO Writes (writer ID, book ID) VALUES (60, 25); INSERT INTO Writes
(writer ID, book ID) VALUES (40, 25); INSERT INTO Genre (book ID, genre) VALUES (25,
'Romance'); INSERT INTO Genre (book_ID, genre) VALUES (25, 'Drama');
INSERT INTO Writes (writer ID, book ID) VALUES (44, 26); INSERT INTO Writes
(writer ID, book ID) VALUES (92, 26); INSERT INTO Writes (writer ID, book ID) VALUES
(88, 26); INSERT INTO Writes (writer_ID, book_ID) VALUES (4, 26); INSERT INTO Genre
(book_ID, genre) VALUES (26, 'Horror'); INSERT INTO Genre (book_ID, genre) VALUES (26,
'Drama');
INSERT INTO Writes (writer ID, book ID) VALUES (37, 27); INSERT INTO Genre (book ID,
genre) VALUES (27, 'Horror'); INSERT INTO Genre (book ID, genre) VALUES (27,
'Mystery'); INSERT INTO Genre (book ID, genre) VALUES (27, 'Historical fiction');
INSERT INTO Writes (writer ID, book ID) VALUES (95, 28); INSERT INTO Writes
(writer ID, book ID) VALUES (61, 28); INSERT INTO Genre (book ID, genre) VALUES (28,
'Fantasy'); INSERT INTO Genre (book_ID, genre) VALUES (28, 'Western'); INSERT INTO
Genre (book ID, genre) VALUES (28, 'Art');
INSERT INTO Writes (writer ID, book ID) VALUES (47, 29); INSERT INTO Writes
(writer ID, book ID) VALUES (78, 29); INSERT INTO Genre (book ID, genre) VALUES (29,
'Historical fiction'); INSERT INTO Genre (book ID, genre) VALUES (29, 'Drama');
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INSERT INTO Writes (writer ID, book ID) VALUES (38, 30); INSERT INTO Genre (book ID,
genre) VALUES (30, 'Romance'); INSERT INTO Genre (book ID, genre) VALUES
(30, 'Biography'); INSERT INTO Genre (book ID, genre) VALUES (30, 'Thriller');
INSERT INTO Writes (writer ID, book ID) VALUES (32, 31); INSERT INTO Writes
(writer ID, book ID) VALUES (16, 31); INSERT INTO Writes (writer ID, book ID) VALUES
(50, 31); INSERT INTO Writes (writer ID, book ID) VALUES (62, 31); INSERT INTO Writes
(writer_ID, book_ID) VALUES (28, 31); INSERT INTO Genre (book ID, genre) VALUES (31,
'Comics'); INSERT INTO Genre (book ID, genre) VALUES (31, 'Cooking');
INSERT INTO Writes (writer ID, book ID) VALUES (61, 32); INSERT INTO Writes
(writer ID, book ID) VALUES (52, 32); INSERT INTO Writes (writer_ID, book_ID) VALUES
(71, 32); INSERT INTO Writes (writer_ID, book_ID) VALUES (82, 32); INSERT INTO Genre
(book ID, genre) VALUES (32, 'Biography'); INSERT INTO Genre (book ID, genre) VALUES
(32, 'Science fiction'); INSERT INTO Genre (book ID, genre) VALUES (32, 'Children
INSERT INTO Writes (writer ID, book ID) VALUES (17, 33); INSERT INTO Writes
(writer ID, book ID) VALUES (32, 33); INSERT INTO Writes (writer ID, book ID) VALUES
(6, 33); INSERT INTO Genre (book ID, genre) VALUES (33, 'Business'); INSERT INTO Genre
(book ID, genre) VALUES (33, 'Historical fiction'); INSERT INTO Genre (book ID, genre)
VALUES (33, 'Cooking');
INSERT INTO Writes (writer ID, book ID) VALUES (15, 34); INSERT INTO Writes
(writer ID, book ID) VALUES (18, 34); INSERT INTO Writes (writer ID, book ID) VALUES
(44, 34); INSERT INTO Writes (writer ID, book ID) VALUES (51, 34); INSERT INTO Writes
(writer ID, book ID) VALUES (82, 34); INSERT INTO Genre (book ID, genre) VALUES (34,
'Business'); INSERT INTO Genre (book ID, genre) VALUES (34, 'Biography');
INSERT INTO Writes (writer_ID, book_ID) VALUES (54, 35); INSERT INTO Writes
(writer ID, book ID) VALUES (25, 35); INSERT INTO Writes (writer ID, book ID) VALUES
(85, 35); INSERT INTO Genre (book_ID, genre) VALUES (35, 'Thriller');
INSERT INTO Writes (writer_ID, book_ID) VALUES (46, 36); INSERT INTO Writes
(writer ID, book ID) VALUES (65, 36); INSERT INTO Writes (writer ID, book ID) VALUES
(73, 36); INSERT INTO Writes (writer ID, book ID) VALUES (8, 36); INSERT INTO Genre
(book ID, genre) VALUES (36, 'Horror'); INSERT INTO Genre (book ID, genre) VALUES (36,
'Business');
INSERT INTO Writes (writer ID, book ID) VALUES (59, 37); INSERT INTO Writes
(writer ID, book ID) VALUES (58, 37); INSERT INTO Writes (writer ID, book ID) VALUES
(95, 37); INSERT INTO Genre (book_ID, genre) VALUES (37, 'Travel');
INSERT INTO Writes (writer ID, book ID) VALUES (14, 38); INSERT INTO Writes
(writer ID, book ID) VALUES (61, 38); INSERT INTO Writes (writer ID, book ID) VALUES
(36, 38); INSERT INTO Writes (writer ID, book ID) VALUES (16, 38); INSERT INTO Genre
(book ID, genre) VALUES (38, 'Thriller');
INSERT INTO Writes (writer ID, book ID) VALUES (61, 39); INSERT INTO Writes
(writer ID, book ID) VALUES (91, 39); INSERT INTO Writes (writer ID, book ID) VALUES
(64, 39); INSERT INTO Writes (writer ID, book ID) VALUES (96, 39); INSERT INTO Genre
(book ID, genre) VALUES (39, 'Romance'); INSERT INTO Genre (book ID, genre) VALUES
(39, 'Fantasy'); INSERT INTO Genre (book_ID, genre) VALUES (39, 'Biography');
INSERT INTO Writes (writer_ID, book_ID) VALUES (87, 40); INSERT INTO Writes
(writer ID, book ID) VALUES (99, 40); INSERT INTO Writes (writer ID, book ID) VALUES
(25, 40); INSERT INTO Writes (writer_ID, book_ID) VALUES (19, 40); INSERT INTO Writes
(writer ID, book ID) VALUES (47, 40); INSERT INTO Writes (writer ID,
book ID) VALUES (52, 40); INSERT INTO Genre (book ID, genre) VALUES (40, 'Memoir');
INSERT INTO Genre (book ID, genre) VALUES (40, 'Cooking');
INSERT INTO Writes (writer ID, book ID) VALUES (47, 41); INSERT INTO Writes
(writer_ID, book_ID) VALUES (73, 41); INSERT INTO Writes (writer_ID, book_ID) VALUES
(67, 41); INSERT INTO Genre (book_ID, genre) VALUES (41, 'Fantasy'); INSERT INTO Genre
(book ID, genre) VALUES (41, 'Travel');
INSERT INTO Writes (writer ID, book ID) VALUES (20, 42); INSERT INTO Writes
(writer ID, book ID) VALUES (82, 42); INSERT INTO Writes (writer ID, book ID) VALUES
(45, 42); INSERT INTO Writes (writer ID, book ID) VALUES (91, 42); INSERT INTO Writes
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(writer ID, book ID) VALUES (72, 42); INSERT INTO Genre (book ID, genre) VALUES (42,
'Art.');
INSERT INTO Writes (writer ID, book ID) VALUES (30, 43); INSERT INTO Genre (book ID,
genre) VALUES (43, 'Business'); INSERT INTO Genre (book ID, genre) VALUES (43,
'Western'); INSERT INTO Genre (book ID, genre) VALUES (43, 'Romance');
INSERT INTO Writes (writer ID, book ID) VALUES (100, 44); INSERT INTO Writes
(writer ID, book ID) VALUES (95, 44); INSERT INTO Writes (writer ID, book ID) VALUES
(60, 44); INSERT INTO Writes (writer ID, book ID) VALUES (80, 44); INSERT INTO Genre
(book ID, genre) VALUES (44, 'Biography');
INSERT INTO Writes (writer_ID, book_ID) VALUES (7, 45); INSERT INTO Writes (writer_ID,
book ID) VALUES (24, 45); INSERT INTO Writes (writer ID, book ID) VALUES (37, 45);
INSERT INTO Writes (writer ID, book ID) VALUES (13, 45); INSERT INTO Writes
(writer ID, book ID) VALUES (100, 45); INSERT INTO Genre (book ID, genre) VALUES (45,
'Thriller'); INSERT INTO Genre (book ID, genre) VALUES (45, 'Romance'); INSERT INTO
Genre (book ID, genre) VALUES (45, 'Western');
INSERT INTO Writes (writer ID, book ID) VALUES (5, 46); INSERT INTO Writes (writer ID,
book ID) VALUES (92, 46); INSERT INTO Writes (writer ID, book ID) VALUES (77, 46);
INSERT INTO Genre (book ID, genre) VALUES (46, 'Biography'); INSERT INTO Genre
(book_ID, genre) VALUES (46, 'Memoir');
INSERT INTO Writes (writer ID, book ID) VALUES (48, 47); INSERT INTO Writes
(writer ID, book ID) VALUES (71, 47); INSERT INTO Writes (writer ID, book ID) VALUES
(87, 47); INSERT INTO Writes (writer ID, book ID) VALUES (38, 47); INSERT INTO Genre
(book ID, genre) VALUES (47, 'Travel');
INSERT INTO Writes (writer ID, book ID) VALUES (60, 48); INSERT INTO Writes
(writer ID, book ID) VALUES (86, 48); INSERT INTO Genre (book ID, genre) VALUES (48,
'Comics');
INSERT INTO Writes (writer ID, book ID) VALUES (27, 49); INSERT INTO Writes
(writer ID, book ID) VALUES (22, 49); INSERT INTO Genre (book ID, genre) VALUES (49,
'Biography');
INSERT INTO Writes (writer ID, book ID) VALUES (70, 50); INSERT INTO Genre (book ID,
genre) VALUES (50, 'Children literature');
INSERT INTO Writes (writer ID, book ID) VALUES (71, 51); INSERT INTO Genre (book ID,
genre) VALUES (51, 'Mystery'); INSERT INTO Genre (book ID, genre) VALUES
(51, 'Thriller'); INSERT INTO Genre (book_ID, genre) VALUES (51, 'Horror');
INSERT INTO Writes (writer ID, book ID) VALUES (32, 52); INSERT INTO Writes
(writer ID, book ID) VALUES (13, 52); INSERT INTO Writes (writer ID, book ID) VALUES
(70, 52); INSERT INTO Writes (writer ID, book ID) VALUES (98, 52); INSERT INTO Writes
(writer ID, book ID) VALUES (8, 52); INSERT INTO Writes (writer ID, book ID) VALUES
(42, 52); INSERT INTO Genre (book ID, genre) VALUES (52, 'Western'); INSERT INTO Genre
(book ID, genre) VALUES (52, 'Cooking');
INSERT INTO Writes (writer ID, book ID) VALUES (17, 53); INSERT INTO Writes
(writer ID, book ID) VALUES (65, 53); INSERT INTO Writes (writer ID, book ID) VALUES
(9, 53); INSERT INTO Writes (writer ID, book ID) VALUES (26, 53); INSERT INTO Writes
(writer_ID, book_ID) VALUES (62, 53); INSERT INTO Writes (writer_ID, book_ID) VALUES
(54, 53); INSERT INTO Genre (book_ID, genre) VALUES (53, 'Travel'); INSERT INTO Genre
(book ID, genre) VALUES (53, 'Thriller');
INSERT INTO Writes (writer ID, book ID) VALUES (89, 54); INSERT INTO Writes
(writer ID, book ID) VALUES (77, 54); INSERT INTO Writes (writer ID, book ID) VALUES
(38, 54); INSERT INTO Genre (book ID, genre) VALUES (54, 'Memoir');
INSERT INTO Writes (writer ID, book ID) VALUES (30, 55); INSERT INTO Writes
(writer ID, book ID) VALUES (21, 55); INSERT INTO Writes (writer ID, book ID) VALUES
(6, 55); INSERT INTO Genre (book_ID, genre) VALUES (55, 'Biography'); INSERT INTO
Genre (book ID, genre) VALUES (55, 'Cooking');
INSERT INTO Writes (writer ID, book ID) VALUES (89, 56); INSERT INTO Writes
(writer ID, book ID) VALUES (29, 56); INSERT INTO Writes (writer ID, book ID) VALUES
(2, 56); INSERT INTO Writes (writer_ID, book_ID) VALUES (60, 56); INSERT INTO Writes
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(writer ID, book ID) VALUES (65, 56); INSERT INTO Genre (book ID, genre) VALUES (56,
'Western');
INSERT INTO Writes (writer ID, book ID) VALUES (52, 57); INSERT INTO Writes
(writer ID, book ID) VALUES (36, 57); INSERT INTO Writes (writer ID, book ID) VALUES
(95, 57); INSERT INTO Genre (book_ID, genre) VALUES (57, 'Horror');
INSERT INTO Writes (writer ID, book ID) VALUES (28, 58); INSERT INTO Writes
(writer ID, book ID) VALUES (14, 58); INSERT INTO Writes (writer ID, book ID) VALUES
(23, 58); INSERT INTO Writes (writer ID, book ID) VALUES (71, 58); INSERT INTO Writes
(writer ID, book ID) VALUES (7, 58); INSERT INTO Genre (book ID, genre) VALUES (58,
'Memoir'); INSERT INTO Genre (book_ID, genre) VALUES (58, 'Children literature');
INSERT INTO Genre (book ID, genre) VALUES (58, 'Science fiction');
INSERT INTO Writes (writer ID, book ID) VALUES (63, 59); INSERT INTO Writes
(writer ID, book ID) VALUES (81, 59); INSERT INTO Writes (writer ID, book ID) VALUES
(88, 59); INSERT INTO Genre (book ID, genre) VALUES (59, 'Comics');
INSERT INTO Writes (writer ID, book ID) VALUES (67, 60); INSERT INTO Writes
(writer ID, book ID) VALUES (12, 60); INSERT INTO Writes (writer ID, book ID) VALUES
(64, 60); INSERT INTO Writes (writer ID, book ID) VALUES (83, 60); INSERT INTO Writes
(writer_ID, book_ID) VALUES (43, 60); INSERT INTO Writes (writer_ID,
book_ID) VALUES (63, 60); INSERT INTO Genre (book_ID, genre) VALUES (60, 'Travel');
INSERT INTO Genre (book ID, genre) VALUES (60, 'Drama');
INSERT INTO Writes (writer ID, book ID) VALUES (77, 61); INSERT INTO Writes
(writer ID, book ID) VALUES (12, 61); INSERT INTO Writes (writer ID, book ID) VALUES
(44, 61); INSERT INTO Genre (book ID, genre) VALUES (61, 'Western'); INSERT INTO Genre
(book ID, genre) VALUES (61, 'Business');
INSERT INTO Writes (writer ID, book ID) VALUES (31, 62); INSERT INTO Writes
(writer ID, book ID) VALUES (91, 62); INSERT INTO Genre (book ID, genre) VALUES (62,
'Business'); INSERT INTO Genre (book ID, genre) VALUES (62, 'Mystery');
INSERT INTO Writes (writer ID, book ID) VALUES (56, 63); INSERT INTO Writes
(writer ID, book ID) VALUES (17, 63); INSERT INTO Writes (writer ID, book ID) VALUES
(50, 63); INSERT INTO Writes (writer ID, book ID) VALUES (36, 63); INSERT INTO Writes
(writer ID, book ID) VALUES (49, 63); INSERT INTO Genre (book ID, genre) VALUES (63,
'Business'); INSERT INTO Genre (book_ID, genre) VALUES (63, 'Children literature');
INSERT INTO Genre (book ID, genre) VALUES (63, 'Art');
INSERT INTO Writes (writer ID, book ID) VALUES (86, 64); INSERT INTO Writes
(writer ID, book ID) VALUES (78, 64); INSERT INTO Genre (book ID, genre) VALUES (64,
'Horror'); INSERT INTO Genre (book ID, genre) VALUES (64, 'Thriller');
INSERT INTO Writes (writer ID, book ID) VALUES (67, 65); INSERT INTO Genre (book ID,
genre) VALUES (65, 'Science fiction');
INSERT INTO Writes (writer ID, book ID) VALUES (70, 66); INSERT INTO Writes
(writer ID, book ID) VALUES (71, 66); INSERT INTO Writes (writer ID, book ID) VALUES
(10, 66); INSERT INTO Writes (writer_ID, book_ID) VALUES (12, 66); INSERT INTO Writes
(writer_ID, book_ID) VALUES (61, 66); INSERT INTO Writes (writer_ID,
book ID) VALUES (94, 66); INSERT INTO Genre (book ID, genre) VALUES (66, 'Horror');
INSERT INTO Genre (book_ID, genre) VALUES (66, 'Business'); INSERT INTO Genre
(book ID, genre) VALUES (66, 'Travel');
INSERT INTO Writes (writer ID, book ID) VALUES (99, 67); INSERT INTO Writes
(writer ID, book ID) VALUES (64, 67); INSERT INTO Writes (writer ID, book ID) VALUES
(26, 67); INSERT INTO Writes (writer ID, book ID) VALUES (6, 67); INSERT INTO Writes
(writer ID, book ID) VALUES (33, 67); INSERT INTO Writes (writer ID, book ID) VALUES
(84, 67); INSERT INTO Genre (book ID, genre) VALUES (67, 'Horror');
INSERT INTO Writes (writer ID, book ID) VALUES (50, 68); INSERT INTO Writes
(writer_ID, book_ID) VALUES (11, 68); INSERT INTO Writes (writer_ID, book_ID) VALUES
(35, 68); INSERT INTO Genre (book_ID, genre) VALUES (68, 'Comics'); INSERT INTO Genre
(book ID, genre) VALUES (68, 'Thriller'); INSERT INTO Genre (book ID, genre) VALUES
(68, 'Children literature');
INSERT INTO Writes (writer ID, book ID) VALUES (61, 69); INSERT INTO Writes
(writer ID, book ID) VALUES (22, 69); INSERT INTO Writes (writer ID, book ID) VALUES
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(69, 69); INSERT INTO Writes (writer ID, book ID) VALUES (15, 69); INSERT INTO Writes
(writer ID, book ID) VALUES (33, 69); INSERT INTO Writes (writer ID,
book ID) VALUES (91, 69); INSERT INTO Genre (book ID, genre) VALUES (69, 'Romance');
INSERT INTO Writes (writer ID, book ID) VALUES (4, 70); INSERT INTO Writes (writer ID,
book ID) VALUES (9, 70); INSERT INTO Writes (writer ID, book ID) VALUES (95, 70);
INSERT INTO Writes (writer ID, book ID) VALUES (61, 70); INSERT INTO Writes
(writer ID, book ID) VALUES (74, 70); INSERT INTO Writes (writer ID, book ID) VALUES
(84, 70); INSERT INTO Genre (book ID, genre) VALUES (70, 'Business'); INSERT INTO
Genre (book ID, genre) VALUES (70, 'Thriller');
INSERT INTO Writes (writer_ID, book_ID) VALUES (85, 71); INSERT INTO Writes
(writer ID, book ID) VALUES (75, 71); INSERT INTO Writes (writer ID, book ID) VALUES
(29, 71); INSERT INTO Writes (writer ID, book ID) VALUES (26, 71); INSERT INTO Writes
(writer ID, book ID) VALUES (32, 71); INSERT INTO Genre (book ID, genre) VALUES (71,
'Thriller'); INSERT INTO Genre (book_ID, genre) VALUES (71, 'Cooking'); INSERT INTO
Genre (book ID, genre) VALUES (71, 'Historical fiction');
INSERT INTO Writes (writer ID, book ID) VALUES (86, 72); INSERT INTO Writes
(writer ID, book ID) VALUES (72, 72); INSERT INTO Writes (writer ID, book ID) VALUES
(53, 72); INSERT INTO Genre (book_ID, genre) VALUES (72, 'Horror');
INSERT INTO Writes (writer_ID, book_ID) VALUES (21, 73); INSERT INTO Genre (book_ID,
genre) VALUES (73, 'Western'); INSERT INTO Genre (book ID, genre) VALUES
(73, 'Cooking');
INSERT INTO Writes (writer ID, book ID) VALUES (35, 74); INSERT INTO Writes
(writer ID, book ID) VALUES (94, 74); INSERT INTO Genre (book ID, genre) VALUES (74,
'Business'); INSERT INTO Genre (book ID, genre) VALUES (74, 'Horror'); INSERT INTO
Genre (book ID, genre) VALUES (74, 'Thriller');
INSERT INTO Writes (writer ID, book ID) VALUES (60, 75); INSERT INTO Writes
(writer ID, book ID) VALUES (30, 75); INSERT INTO Writes (writer ID, book ID) VALUES
(16, 75); INSERT INTO Writes (writer ID, book ID) VALUES (80, 75); INSERT INTO Writes
(writer ID, book ID) VALUES (64, 75); INSERT INTO Genre (book ID, genre) VALUES (75,
'Science fiction');
INSERT INTO Writes (writer ID, book ID) VALUES (4, 76); INSERT INTO Genre (book ID,
genre) VALUES (76, 'Science fiction');
INSERT INTO Writes (writer ID, book ID) VALUES (8, 77); INSERT INTO Writes (writer ID,
book ID) VALUES (58, 77); INSERT INTO Writes (writer ID, book ID) VALUES (48, 77);
INSERT INTO Writes (writer ID, book ID) VALUES (63, 77); INSERT INTO Writes
(writer ID, book ID) VALUES (55, 77); INSERT INTO Genre (book ID, genre) VALUES (77,
'Thriller'); INSERT INTO Genre (book ID, genre) VALUES (77, 'Romance'); INSERT INTO
Genre (book ID, genre) VALUES (77, 'Business');
INSERT INTO Writes (writer ID, book ID) VALUES (20, 78); INSERT INTO Genre (book ID,
genre) VALUES (78, 'Thriller');
INSERT INTO Writes (writer_ID, book_ID) VALUES (21, 79); INSERT INTO Writes
(writer ID, book ID) VALUES (30, 79); INSERT INTO Writes (writer ID, book ID) VALUES
(34, 79); INSERT INTO Writes (writer ID, book ID) VALUES (18, 79); INSERT INTO Genre
(book_ID, genre) VALUES (79, 'Drama'); INSERT INTO Genre (book_ID, genre) VALUES (79,
'Historical fiction');
INSERT INTO Writes (writer ID, book ID) VALUES (47, 80); INSERT INTO Writes
(writer ID, book ID) VALUES (20, 80); INSERT INTO Writes (writer ID, book ID) VALUES
(98, 80); INSERT INTO Writes (writer ID, book ID) VALUES (58, 80); INSERT INTO Genre
(book ID, genre) VALUES (80, 'Romance'); INSERT INTO Genre (book ID, genre) VALUES
(80, 'Cooking'); INSERT INTO Genre (book ID, genre) VALUES (80, 'Horror');
INSERT INTO Writes (writer ID, book ID) VALUES (12, 81); INSERT INTO Writes
(writer ID, book ID) VALUES (91, 81); INSERT INTO Writes (writer ID, book ID) VALUES
(50, 81); INSERT INTO Writes (writer ID, book ID) VALUES (13, 81); INSERT INTO Genre
(book ID, genre) VALUES (81, 'Science fiction'); INSERT INTO Genre (book ID, genre)
VALUES (81, 'Travel');
INSERT INTO Writes (writer ID, book ID) VALUES (22, 82); INSERT INTO Writes
(writer ID, book ID) VALUES (3, 82); INSERT INTO Writes (writer ID, book ID) VALUES
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(85, 82); INSERT INTO Writes (writer ID, book ID) VALUES (50, 82); INSERT INTO Writes
(writer ID, book ID) VALUES (13, 82); INSERT INTO Writes (writer ID, book ID) VALUES
(76, 82); INSERT INTO Genre (book ID, genre) VALUES (82, 'Historical fiction'); INSERT
INTO Genre (book ID, genre) VALUES (82, 'Business'); INSERT INTO Genre (book ID,
genre) VALUES (82, 'Horror');
INSERT INTO Writes (writer ID, book ID) VALUES (92, 83); INSERT INTO Writes
(writer ID, book ID) VALUES (64, 83); INSERT INTO Writes (writer ID, book ID) VALUES
(48, 83); INSERT INTO Writes (writer ID, book ID) VALUES (73, 83); INSERT INTO Writes
(writer ID, book ID) VALUES (74, 83); INSERT INTO Writes (writer ID,
book_ID) VALUES (79, 83); INSERT INTO Genre (book_ID, genre) VALUES (83, 'Drama');
INSERT INTO Genre (book ID, genre) VALUES (83, 'Business');
INSERT INTO Writes (writer ID, book ID) VALUES (82, 84); INSERT INTO Genre (book ID,
genre) VALUES (84, 'Fantasy');
INSERT INTO Writes (writer ID, book ID) VALUES (88, 85); INSERT INTO Writes
(writer ID, book ID) VALUES (47, 85); INSERT INTO Writes (writer ID, book ID) VALUES
(62, 85); INSERT INTO Writes (writer ID, book ID) VALUES (19, 85); INSERT INTO Writes
(writer ID, book ID) VALUES (84, 85); INSERT INTO Writes (writer ID,
book ID) VALUES (43, 85); INSERT INTO Genre (book ID, genre) VALUES (85, 'Children
literature'); INSERT INTO Genre (book_ID, genre) VALUES (85, 'Thriller');
INSERT INTO Writes (writer ID, book ID) VALUES (5, 86); INSERT INTO Writes (writer ID,
book ID) VALUES (38, 86); INSERT INTO Genre (book_ID, genre) VALUES (86, 'Historical
fiction');
INSERT INTO Writes (writer ID, book ID) VALUES (36, 87); INSERT INTO Writes
(writer ID, book ID) VALUES (57, 87); INSERT INTO Writes (writer ID, book ID) VALUES
(70, 87); INSERT INTO Writes (writer ID, book ID) VALUES (32, 87); INSERT INTO Genre
(book ID, genre) VALUES (87, 'Biography'); INSERT INTO Genre (book ID, genre) VALUES
(87, 'Historical fiction'); INSERT INTO Genre (book ID, genre) VALUES (87, 'Fantasy');
INSERT INTO Writes (writer ID, book_ID) VALUES (16, 88); INSERT INTO Writes
(writer ID, book ID) VALUES (89, 88); INSERT INTO Writes (writer ID, book ID) VALUES
(52, 88); INSERT INTO Writes (writer ID, book ID) VALUES (90, 88); INSERT INTO Genre
(book ID, genre) VALUES (88, 'Historical fiction'); INSERT INTO Genre
(book ID, genre) VALUES (88, 'Fantasy');
INSERT INTO Writes (writer ID, book ID) VALUES (12, 89); INSERT INTO Writes
(writer ID, book ID) VALUES (46, 89); INSERT INTO Writes (writer ID, book ID) VALUES
(85, 89); INSERT INTO Writes (writer ID, book ID) VALUES (17, 89); INSERT INTO Writes
(writer ID, book ID) VALUES (29, 89); INSERT INTO Genre (book ID, genre) VALUES (89,
'Business'); INSERT INTO Genre (book ID, genre) VALUES (89, 'Drama'); INSERT INTO
Genre (book ID, genre) VALUES (89, 'Children literature');
INSERT INTO Writes (writer ID, book ID) VALUES (40, 90); INSERT INTO Writes
(writer ID, book ID) VALUES (70, 90); INSERT INTO Writes (writer ID, book ID) VALUES
(18, 90); INSERT INTO Writes (writer ID, book ID) VALUES (79, 90); INSERT INTO Genre
(book ID, genre) VALUES (90, 'Horror');
INSERT INTO Writes (writer ID, book ID) VALUES (10, 91); INSERT INTO Writes
(writer ID, book ID) VALUES (95, 91); INSERT INTO Writes (writer_ID, book_ID) VALUES
(85, 91); INSERT INTO Writes (writer_ID, book_ID) VALUES (70, 91); INSERT INTO Writes
(writer ID, book ID) VALUES (83, 91); INSERT INTO Writes (writer ID,
book ID) VALUES (49, 91); INSERT INTO Genre (book ID, genre) VALUES (91, 'Horror');
INSERT INTO Genre (book ID, genre) VALUES (91, 'Art'); INSERT INTO Genre (book ID,
genre) VALUES (91, 'Biography');
INSERT INTO Writes (writer ID, book ID) VALUES (38, 92); INSERT INTO Writes
(writer ID, book ID) VALUES (84, 92); INSERT INTO Writes (writer ID, book ID) VALUES
(49, 92); INSERT INTO Writes (writer_ID, book_ID) VALUES (16, 92); INSERT INTO Writes
(writer ID, book ID) VALUES (80, 92); INSERT INTO Writes (writer ID,
book ID) VALUES (90, 92); INSERT INTO Genre (book ID, genre) VALUES (92, 'Art');
INSERT INTO Genre (book ID, genre) VALUES (92, 'Drama'); INSERT INTO Genre (book ID,
genre) VALUES (92, 'Thriller');
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INSERT INTO Writes (writer ID, book ID) VALUES (84, 93); INSERT INTO Genre (book ID,
genre) VALUES (93, 'Drama'); INSERT INTO Genre (book ID, genre) VALUES (93,
'Cooking');
INSERT INTO Writes (writer ID, book ID) VALUES (3, 94); INSERT INTO Writes (writer ID,
book ID) VALUES (90, 94); INSERT INTO Writes (writer ID, book ID) VALUES (45, 94);
INSERT INTO Writes (writer ID, book ID) VALUES (38, 94); INSERT INTO Writes
(writer ID, book ID) VALUES (66, 94); INSERT INTO Genre (book ID, genre) VALUES (94,
'Drama'):
INSERT INTO Writes (writer ID, book ID) VALUES (51, 95); INSERT INTO Writes
(writer ID, book ID) VALUES (13, 95); INSERT INTO Genre (book ID, genre) VALUES (95,
'Travel');
INSERT INTO Writes (writer ID, book ID) VALUES (30, 96); INSERT INTO Writes
(writer ID, book ID) VALUES (43, 96); INSERT INTO Writes (writer ID, book ID) VALUES
(49, 96); INSERT INTO Genre (book ID, genre) VALUES (96, 'Art'); INSERT INTO Genre
(book ID, genre) VALUES (96, 'Comics'); INSERT INTO Genre (book ID, genre) VALUES (96,
'Cooking');
INSERT INTO Writes (writer ID, book ID) VALUES (96, 97); INSERT INTO Genre (book ID,
genre) VALUES (97, 'Children literature'); INSERT INTO Genre (book ID, genre) VALUES
(97, 'Science fiction'); INSERT INTO Genre (book_ID, genre) VALUES (97, 'Fantasy');
INSERT INTO Writes (writer ID, book ID) VALUES (73, 98); INSERT INTO Writes
(writer ID, book ID) VALUES (61, 98); INSERT INTO Writes (writer ID, book ID) VALUES
(45, 98); INSERT INTO Writes (writer ID, book ID) VALUES (49, 98); INSERT INTO Writes
(writer ID, book ID) VALUES (89, 98); INSERT INTO Genre (book ID, genre) VALUES (98,
'Thriller'); INSERT INTO Genre (book ID, genre) VALUES (98, 'Biography'); INSERT INTO
Genre (book ID, genre) VALUES (98, 'Mystery');
INSERT INTO Writes (writer ID, book ID) VALUES (9, 99); INSERT INTO Writes (writer ID,
book ID) VALUES (35, 99); INSERT INTO Writes (writer ID, book ID) VALUES (34, 99);
INSERT INTO Genre (book ID, genre) VALUES (99, 'Business'); INSERT INTO Genre
(book ID, genre) VALUES (99, 'Biography');
INSERT INTO Writes (writer ID, book ID) VALUES (81, 100); INSERT INTO Writes
(writer ID, book ID) VALUES (64, 100); INSERT INTO Genre (book ID, genre) VALUES
(100, 'Mystery'); INSERT INTO Genre (book ID, genre) VALUES (100, 'Horror');
INSERT INTO Reservation (user ID, book ID, request date, pending reservation date,
canceled at, served at, reservation status) VALUES
(33, 48, DATE SUB(NOW(), INTERVAL 3 DAY), NULL, NULL, DATE SUB(NOW(), INTERVAL 2 DAY),
(21, 83, DATE SUB(NOW(), INTERVAL 3 DAY), NULL, NULL, DATE SUB(NOW(), INTERVAL 2 DAY),
2),
(22, 19, DATE SUB(NOW(), INTERVAL 2 DAY), NULL, NULL, NOW(), 2),
(28, 33, DATE_SUB(NOW(), INTERVAL 3 DAY), NULL, NULL, NOW(), 2),
(29, 23, DATE SUB(NOW(), INTERVAL 3 DAY), NULL, NULL, NOW(), 2),
(35, 95, '2022-04-17 09:24:04.630228', NULL, NULL, '2022-04-18 09:24:04.630228', 2),
(26, 15, DATE SUB(NOW(), INTERVAL 4 DAY), NULL, NULL, DATE SUB(NOW(), INTERVAL 2 DAY),
(25, 83, DATE SUB(NOW(), INTERVAL 4 DAY), NULL, NULL, DATE SUB(NOW(), INTERVAL 3 DAY),
(41, 76, DATE SUB(NOW(), INTERVAL 2 DAY), NULL, NULL, NOW(), 2),
(38, 100, '2023-04-04 09:24:04.630228', NULL, NULL, '2023-04-06 09:24:04.630228', 2),
(21, 96, DATE SUB(NOW(), INTERVAL 2 DAY), NULL, NULL, NOW(), 2),
(24, 25, '2023-04-08 09:24:04.630228', NULL, NULL, '2023-04-10 09:24:04.630228', 2),
(36, 84, '2021-05-01 09:24:04.630228', NULL, NULL, '2021-05-03 09:24:04.630228', 2),
(33, 32, DATE SUB(NOW(), INTERVAL 4 DAY), NULL, NULL, NOW(), 2),
(12, 67, '2023-04-07 09:24:04.630228', NULL, NULL, '2023-04-09 09:24:04.630228', 2),
(7, 30, DATE SUB(NOW(), INTERVAL 4 DAY), NULL, NULL, DATE SUB(NOW(), INTERVAL 3 DAY),
(14, 68, DATE SUB(NOW(), INTERVAL 4 DAY), NULL, NULL, NOW(), 2),
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(28, 30, DATE SUB(NOW(), INTERVAL 4 DAY), NULL, NULL, DATE SUB(NOW(), INTERVAL 3 DAY),
2),
(6, 45, DATE SUB(NOW(), INTERVAL 5 DAY), NULL, NULL, DATE SUB(NOW(), INTERVAL 4 DAY),
2).
(10, 14, '2022-04-09 09:24:04.630228', NULL, NULL, '2022-04-10 09:24:04.630228', 2),
(19, 30, DATE SUB(NOW(), INTERVAL 2 DAY), DATE SUB(NOW(), INTERVAL 1 DAY), NULL, NULL,
(37, 45, DATE SUB(NOW(), INTERVAL 4 DAY), DATE SUB(NOW(), INTERVAL 3 DAY), NULL, NULL,
(14, 48, DATE SUB(NOW(), INTERVAL 2 DAY), DATE SUB(NOW(), INTERVAL 1 DAY), NULL, NULL,
(34, 83, DATE SUB(NOW(), INTERVAL 1 DAY), NOW(), NULL, NULL, 1),
(33, 15, DATE SUB(NOW(), INTERVAL 1 DAY), NOW(), NULL, NULL, 1),
(33, 53, DATE SUB(NOW(), INTERVAL 1 DAY), NULL, NULL, NULL, 0),
(21, 39, NOW(), NULL, NULL, NULL, 0),
(21, 12, NOW(), NULL, NULL, NULL, 0),
(6, 11, NOW(), NULL, NULL, NULL, 0),
(19, 19, DATE SUB(NOW(), INTERVAL 2 DAY), NULL, NULL, NULL, O),
(36, 62, DATE_SUB(NOW(), INTERVAL 2 DAY), NULL, NULL, NULL, O),
(10, 76, NOW(), NULL, NULL, NULL, 0),
(13, 16, DATE SUB(NOW(), INTERVAL 2 DAY), NULL, NULL, NULL, O),
(26, 16, DATE SUB(NOW(), INTERVAL 2 DAY), NULL, NULL, NULL, O),
(9, 3, DATE SUB(NOW(), INTERVAL 5 DAY), NULL, NULL, NULL, 0),
(9, 6, DATE SUB(NOW(), INTERVAL 5 DAY), NULL, DATE SUB(NOW(), INTERVAL 3 DAY), NULL,
3),
(5, 58, DATE SUB(NOW(), INTERVAL 2 DAY), NULL, NOW(), NULL, 3),
(17, 59, DATE SUB(NOW(), INTERVAL 5 DAY), NULL, DATE SUB(NOW(), INTERVAL 3 DAY), NULL,
3),
(17, 95, DATE SUB(NOW(), INTERVAL 5 DAY), NULL, DATE SUB(NOW(), INTERVAL 2 DAY), NULL,
3),
(25, 29, DATE SUB(NOW(), INTERVAL 5 DAY), NULL, NOW(), NULL, 3);
INSERT INTO Lending (user ID, book ID, lending date, must be returned at,
was returned at) VALUES
(7, 30, DATE SUB(NOW(), INTERVAL 3 DAY), DATE ADD(DATE SUB(NOW(), INTERVAL 3
DAY), INTERVAL 1 MONTH), NULL),
(14, 68, NOW(), DATE ADD(NOW(), INTERVAL 1 MONTH), NULL),
(28, 30, DATE SUB(NOW(), INTERVAL 3 DAY), DATE ADD(DATE SUB(NOW(), INTERVAL 3
DAY), INTERVAL 1 MONTH), NULL),
(16, 30, '2023-04-27 09:24:04.630228', '2023-05-27 09:24:04.630228', '2023-05-11
09:24:04.630228'),
(31, 33, '2023-04-12 09:24:04.630228', '2023-05-12 09:24:04.630228', NULL),
(28, 4, '2022-04-21 09:24:04.630228', '2022-05-21 09:24:04.630228', '2022-05-01
09:24:04.630228'),
(6, 45, DATE SUB(NOW(), INTERVAL 4 DAY), DATE ADD(DATE SUB(NOW(), INTERVAL 4
DAY), INTERVAL 1 MONTH), NULL),
(30, 18, '2023-04-12 09:24:04.630228', '2023-05-12 09:24:04.630228', NULL),
(40, 2, NOW(), DATE ADD(NOW(), INTERVAL 1 MONTH), NULL),
(10, 14, '2022-04-10 09:24:04.630228', '2022-05-10 09:24:04.630228', '2022-04-20
09:24:04.630228'),
(7, 9, '2022-04-15 09:24:04.630228', '2022-05-15 09:24:04.630228', '2022-05-06
09:24:04.630228'),
(23, 99, '2023-04-01 09:24:04.630228', '2023-05-01 09:24:04.630228', NULL),
(5, 20, NOW(), DATE ADD(NOW(), INTERVAL 1 MONTH), NULL),
(20, 50, '2023-04-06 09:24:04.630228', '2023-05-05 09:24:04.630228', NULL),
(29, 28, NOW(), DATE ADD(NOW(), INTERVAL 1 MONTH), NULL),
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(33, 48, DATE SUB(NOW(), INTERVAL 2 DAY), DATE ADD(DATE SUB(NOW(), INTERVAL 2
DAY), INTERVAL 1 MONTH), NULL),
(21, 83, DATE SUB(NOW(), INTERVAL 2 DAY), DATE ADD(DATE SUB(NOW(), INTERVAL 2
DAY), INTERVAL 1 MONTH), NULL),
(22, 19, NOW(), DATE ADD(NOW(), INTERVAL 1 MONTH), NULL),
(28, 33, NOW(), DATE ADD(NOW(), INTERVAL 1 MONTH), NULL),
(29, 23, NOW(), DATE ADD(NOW(), INTERVAL 1 MONTH), NULL),
(35, 35, '2022-04-18 09:24:04.630228', '2022-05-18 09:24:04.630228', '2022-04-25
09:24:04.630228'),
(26, 15, DATE SUB(NOW(), INTERVAL 2 DAY), DATE ADD(DATE SUB(NOW(), INTERVAL 2
DAY), INTERVAL 1 MONTH), NULL),
(25, 83, DATE SUB(NOW(), INTERVAL 3 DAY), DATE ADD(DATE SUB(NOW(), INTERVAL 3
DAY), INTERVAL 1 MONTH), NULL),
(41, 76, NOW(), DATE ADD(NOW(), INTERVAL 1 MONTH), NULL),
(38, 100, '2023-04-06 09:24:04.630228', '2023-05-06 09:24:04.630228', NULL),
(21, 96, NOW(), DATE_ADD(NOW(), INTERVAL 1 MONTH), NULL),
(24, 25, '2023-04-10 09:24:04.630228', '2023-05-10 09:24:04.630228', NULL),
(36, 84, '2021-05-03 09:24:04.630228', '2021-06-02 09:24:04.630228', '2021-05-27
09:24:04.630228'),
(33, 32, NOW(), DATE ADD(NOW(), INTERVAL 1 MONTH), NULL),
(12, 67, '2023-04-09 09:24:04.630228', '2023-05-09 09:24:04.630228', '2023-05-03
09:24:04.630228'),
(11, 75, NOW(), DATE ADD(NOW(), INTERVAL 1 MONTH), NULL),
(14, 55, '2022-04-09 09:24:04.631266', '2022-05-09 09:24:04.631266', '2022-04-19
09:24:04.631266'),
(29, 14, '2023-01-14 09:24:04.631266', '2023-02-14 09:24:04.631266', '2023-01-28
09:24:04.631266').
(30, 4, '2023-02-08 09:24:04.631266', '2023-03-08 09:24:04.631266', '2023-03-04
09:24:04.631266'),
(12, 10, '2023-04-11 09:24:04.631266', '2023-05-11 09:24:04.631266', NULL),
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09:24:04.631266'),
(21, 71, '2023-03-01 09:24:04.631266', '2023-04-01 09:24:04.631266', '2023-03-23
09:24:04.631266'),
(33, 73, '2023-03-11 09:24:04.631266', '2023-04-11 09:24:04.631266', '2023-04-09
09:24:04.631266'),
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(39, 42, '2023-04-01 09:24:04.631266', '2023-05-01 09:24:04.631266', NULL),
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09:24:04.631266'),
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09:24:04.631266'),
(34, 74, NOW(), DATE ADD(NOW(), INTERVAL 1 MONTH), NULL),
(33, 68, '2023-04-04 09:24:04.631266', '2023-05-04 09:24:04.631266', '2023-05-02
09:24:04.631266'),
(8, 54, NOW(), DATE ADD(NOW(), INTERVAL 1 MONTH), NULL),
(26, 72, '2022-04-13 09:24:04.631266', '2022-05-13 09:24:04.631266', '2022-05-11
09:24:04.631266'),
(40, 19, '2021-04-13 09:24:04.631266', '2021-05-13 09:24:04.631266', '2021-05-11
09:24:04.631266'),
(13, 43, '2022-04-13 09:24:04.631266', '2022-05-13 09:24:04.631266', '2022-05-11
09:24:04.631266'),
(6, 7, '2023-04-27 09:24:04.630228', '2023-05-27 09:24:04.630228', '2023-05-11
09:24:04.630228'),
```

```
(11, 10, '2023-04-27 09:24:04.630228', '2023-05-27 09:24:04.630228', '2023-05-11
09:24:04.630228!).
(12, 11, '2023-04-27 09:24:04.630228', '2023-05-27 09:24:04.630228', '2023-05-11
09:24:04.630228'),
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09:24:04.630228'),
(20, 13, '2023-04-27 09:24:04.630228', '2023-05-27 09:24:04.630228', '2023-05-11
09:24:04.630228'),
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09:24:04.630228'),
(6, 29, '2023-04-27 09:24:04.630228', '2023-05-27 09:24:04.630228', '2023-05-11
09:24:04.630228'),
(11, 34, '2023-04-27 09:24:04.630228', '2023-05-27 09:24:04.630228', '2023-05-11
09:24:04.630228'),
(12, 39, '2023-04-27 09:24:04.630228', '2023-05-27 09:24:04.630228', '2023-05-11
09:24:04.630228'),
(18, 40, '2023-04-27 09:24:04.630228', '2023-05-27 09:24:04.630228', '2023-05-11
09:24:04.630228'),
(5, 2, '2023-04-27 09:24:04.630228', '2023-05-27 09:24:04.630228', '2023-05-11
09:24:04.630228'),
(7, 4, '2023-04-27 09:24:04.630228', '2023-05-27 09:24:04.630228', '2023-05-11
09:24:04.630228'),
(8, 5, '2023-04-27 09:24:04.630228', '2023-05-27 09:24:04.630228', '2023-05-11
09:24:04.630228'),
(10, 9, '2023-04-27 09:24:04.630228', '2023-05-27 09:24:04.630228', '2023-05-11
09:24:04.630228');
INSERT INTO Review (user ID, book ID, review, rating) VALUES
(7, 30, 'This book was okay.', 3),
(14, 68, 'This book was disappointing.', 0),
(28, 30, 'This book was amazing.', 5),
(16, 30, 'This book was amazing.', 5),
(31, 33, 'This book was good.', 4),
(28, 4, 'This book was okay.', 3),
(6, 45, 'This book was great.', 4),
(30, 18, 'This book was okay.', 2),
(40, 2, 'This book was okay.', 3),
(10, 14, 'This book was disappointing.', 0),
(7, 9, 'This book was okay.', 3),
(21, 83, 'This book was good.', 4),
(24, 25, 'This book was okay.', 2),
(33, 32, 'This book was great.', 5),
(12, 67, 'This book was disappointing.', 0),
(14, 55, 'This book was disappointing.', 1),
(21, 71, 'This book was disappointing.', 1),
(34, 74, 'This book was okay.', 2),
(8, 54, 'This book was great.', 5),
(38, 100, 'This book was disappointing.', 2),
(6, 7, 'This book was okay.', 3),
(11, 10, 'This book was disappointing.', 0),
(12, 11, 'This book was amazing.', 5),
(18, 12, 'This book was amazing.', 5),
(20, 13, 'This book was good.', 4),
(21, 22, 'This book was okay.', 3),
(6, 29, 'This book was great.', 4),
(11, 34, 'This book was okay.', 2),
(12, 39, 'This book was okay.', 3),
```

```
(18, 40, 'This book was disappointing.', 0),
(5, 2, 'This book was okay.', 3),
(7, 4, 'This book was good.', 4),
(8, 5, 'This book was okay.', 2),
(10, 9, 'This book was great.', 5);
```

Εγχειρίδιο Χρήσης

Εισανωνή

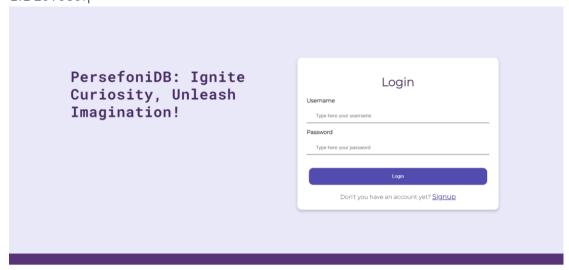
Το Εγχειρίδιο Χρήσης παρέχει λεπτομερείς οδηγίες για τη χρήση της ιστοσελίδας ηλεκτρονικών βιβλιοθηκών. Αυτό το εγχειρίδιο έχει σχεδιαστεί με σκοπό να σας βοηθήσει να κατανοήσετε πλήρως τη λειτουργία της εφαρμογής και εξηγεί αναλυτικά τις διάφορες δυνατότητες που προσφέρονται στους χρήστες της, συμπεριλαμβανομένων:

- 1. Διαχειριστής (Super Admin): Ο διαχειριστής αναλαμβάνει την ολοκληρωμένη διαχείριση των ηλεκτρονικών σχολικών βιβλιοθηκών που έχουν εγγραφεί στην εφαρμογή. Επιπλέον, αναλαμβάνει τη διαχείριση των χειριστών του κάθε σχολείου και έχει πρόσβαση σε διάφορες πληροφορίες που αφορούν όλες τις σχολικές βιβλιοθήκες.
- 2. Χειριστής (School Admin): Ο χειριστής έχει τη δυνατότητα να διαχειρίζεται τους χρήστες, τα βιβλία και όλες τις ενέργειες που μπορούν να γίνουν μέσα στην ηλεκτρονική βιβλιοθήκη του σχολείου του.
- 3. Χρήστες (Users): Οι χρήστες (μαθητές και καθηγητές) έχουν πρόσβαση σε λειτουργίες που αφορούν τη διαχείριση των βιβλίων. Αυτό περιλαμβάνει την αναζήτηση βιβλίων και τον δανεισμό, καθώς και τη δυνατότητα κρατήσεων.

Αυτό το εγχειρίδιο θα σας βοηθήσει να κατανοήσετε πώς να εκτελέσετε αυτές τις λειτουργίες με ακρίβεια και αποτελεσματικότητα. Πριν αρχίσετε να χρησιμοποιείτε την εφαρμογή, συνιστάται να διαβάσετε προσεκτικά αυτό το εγχειρίδιο για να είστε εξοικειωμένοι με τις διαδικασίες και τις λειτουργίες της εφαρμογής.

1. Αρχική Σελίδα

1.1 Σύνδεση

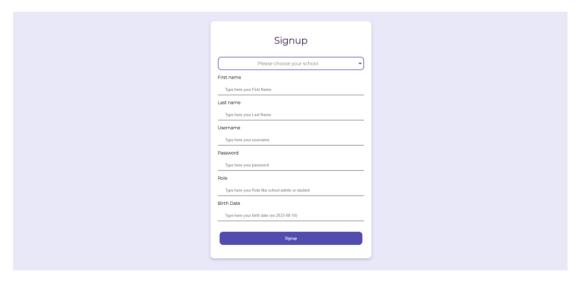


Εικόνα 1 Αρχική Σελίδα

Στην αρχική σελίδα ο κάθε εγγεγραμμένος και εγκεκριμένος χρήστης μπορεί να συνδεθεί με το username και το password του πατώντας "Login", ώστε να αποκτήσει πρόσβαση στην κύρια οθόνη του.

1.2 Εγγραφή

Πατώντας το κουμπί "Signup" ένα καινούργιος χρήστης ή χειριστής μπορεί να εγγραφεί στο σχολείο του συμπληρώνοντας όλα τα πεδία της φόρμας εγγραφής.

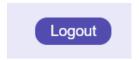


Εικόνα 2 Φόρμα εγγραφής

2. Γενικές Λειτουργίες

2.1 Αποσύνδεση

Σε κάθε κύρια οθόνη του κάθε χρήστη υπάρχει ένα το κουμπί "Logout" που σας αποσυνδέει και σας μεταφέρει αυτόματος στην αρχική σελίδα σύνδεσης.



Εικόνα 3 Logout

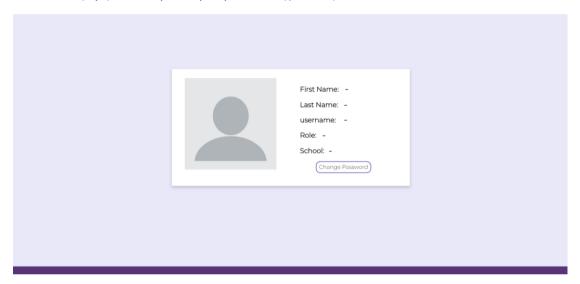
2.2 Προφίλ

Μπορείτε να έχετε πρόσβαση στα προσωπικά σας δεδομένα πατώντας το εικονίδιο του προφίλ.



Εικόνα 4 profile button

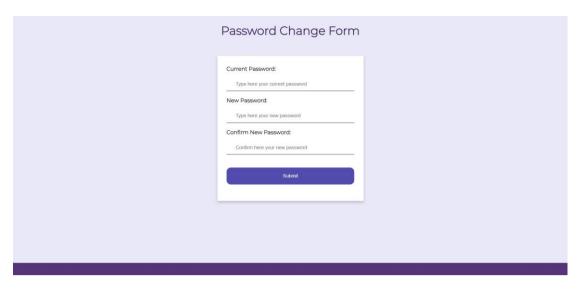
Τότε θα σας εμφανιστεί μια κάρτα με τα στοιχεία σας.



Εικόνα 5 Κάρτα προσωπικών δεδομένων

2.2.1 Αλλαγή κωδικού

Η αλλαγή κωδικού γίνεται ευκολά πατώντας το κουμπί "Change Password" από το προφίλ.

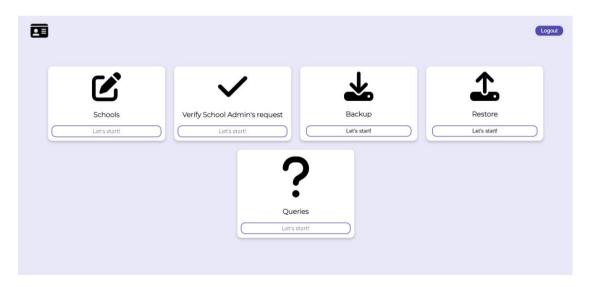


Εικόνα 6 Αλλαγή κωδικού πρόσβασης

Είναι σημαντικό κατά την αλλαγή του κωδικού πρόσβασης να επιλέξετε έναν κωδικό ο οποίος να περιέχει πάνω από 8 χαρακτήρες και να μην είναι ίδιος με τον τωρινό.

3. Διαχειριστής

3.1 Κεντρική οθόνη



Εικόνα 7 Κύρια οθόνη διαχειριστή

Ο διαχειριστής έχει πρόσβαση σε πληροφορίες σε επίπεδο σχολικών μονάδων, πράγμα που σημαίνει ότι μπορεί να διαχειρίζεται τα σχολεία και τους υπεύθυνους τους. Επιπλέον, έχει τη

δυνατότητα να αποθηκεύει και να ενημερώνει τη βάση δεδομένων. Τέλος, μέσω των "Queries" μπορεί να ανακτήσει πληροφορίες που σχετίζονται με όλα τα σχολεία.

3.2 Σχολεία

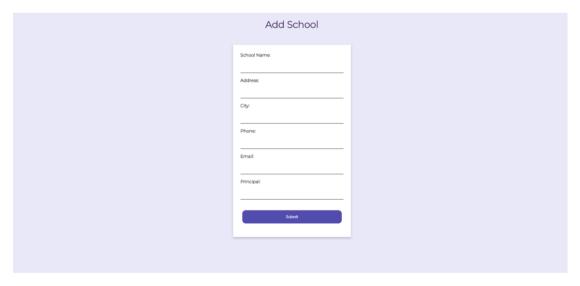
Πατώντας "Let's start!" στην κάρτα "Schools" εμφανίζονται τα εγγεγραμμένα σχολεία στο σύστημα.



Εικόνα 8 Σελίδα με όλα τα σχολεία

3.2.1 Προσθήκη σχολείου

Το κουμπί "Add school" κάνει εφικτό την προσθήκη νέου σχολείου στην πλατφόρμα.

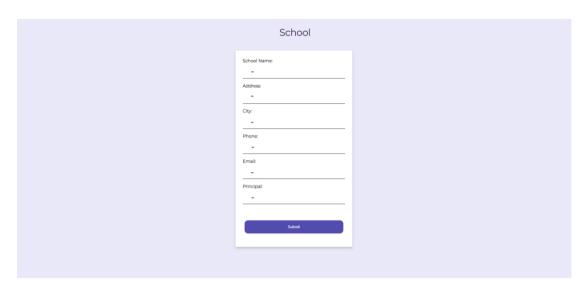


Εικόνα 9 Φόρμα προσθήκης νέου σχολείου

Συμπληρώστε όλα τα στοιχεία για να μπορέσει να καταχωρηθεί ένα νέο σχολείο με επιτυχία πατώντας "Submit".

3.2.2 Επεξεργασία σχολείου

Με το κουμπί "Edit" που βρίσκεται σε κάθε κάρτα ενός σχολείου γίνεται εύκολα η επεξεργασία των δεδομένων του σχολείου και ενημέρωση τους στο σύστημα.



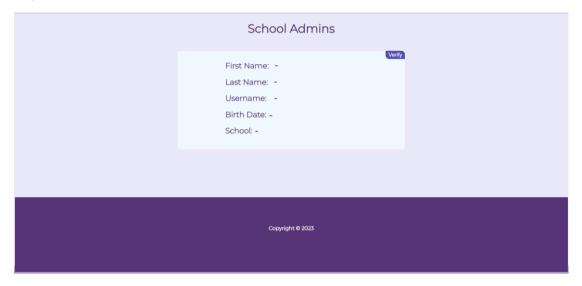
Εικόνα 10 Επεξεργασία Σχολείου

3.2.3 Διαγραφή σχολείου

Η διαγραφή ενός σχολείου γίνεται εύκολα πατώντας "Delete".

3.3 Αποδοχή αιτήματος χειριστή

Πατώντας το κουμπί "Let's start!" στην κάρτα "Verify School Admin's request" εμφανίζεται η παρακάτω σελίδα.



Εικόνα 11 Κεντρική σελίδα αποδοχής αιτήματος χειριστή

Το κουμπί "Verify" κάνει εύκολη την αποδοχή του αιτήματος ενός καινούριου χειριστή ενός σχολείου.

3.4 Backup και Restore

Ο διαχειριστής έχει στη διάθεσή του δύο κάρτες λειτουργίας, την κάρτα "Backup" και την κάρτα "Restore". Όταν ο χρήστης πατά την κάρτα "Backup", μπορεί να δημιουργήσει ένα αντίγραφο ασφαλείας της βάσης δεδομένων. Αντίστοιχα, με την κάρτα "Restore", ο χρήστης μπορεί να επαναφέρει τη βάση δεδομένων σε μια προηγούμενη κατάσταση. Οι δύο αυτές

κάρτες παρέχουν σημαντική λειτουργικότητα και ευελιξία στη διαχείριση της βάσης δεδομένων.

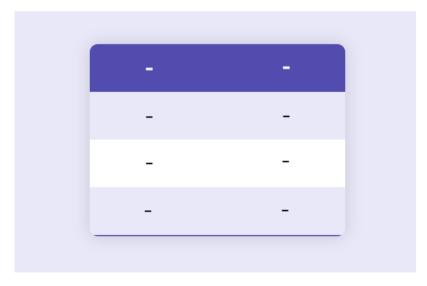
3.5 Queries

Οι παρακάτω ερωτήσεις επιτρέπουν στον διαχειριστή αντλήσει συγκεκριμένες πληροφορίες και στατιστικά στοιχεία από τη βάση δεδομένων σχετικά με τις σχολικές βιβλιοθήκες.



Εικόνα 12 Σελίδα με όλα τα Queries

Το κάθε query παρουσιάζεται σε μια καινούρια σελίδα στην μορφή πίνακα όπως φαίνεται παρακάτω στην Εικόνα 12.



Εικόνα 13 Πίνακας εμφάνισης των Queries

3.5.1 Query 3.1.1

Παρουσιάζεται μια λίστα που περιλαμβάνει τον συνολικό αριθμό δανεισμών ανά σχολείο, λαμβάνοντας υπόψη κριτήρια όπως το έτος και ο μήνας.



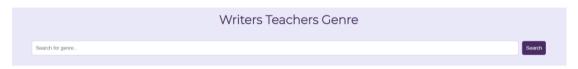
Εικόνα 14 Φόρμα αναζήτησης για το 3.1.1 Query

Προσοχή στην φόρμα αναζήτησης πληκτρολογήστε σωστά το έτος και τον μήνα στο κατάλληλο κάθε φορά κουτί.

3.5.2 Query 3.1.2

Γίνεται ο εντοπισμός των συγγραφέων που ανήκουν σε μια συγκεκριμένη κατηγορία βιβλίων, καθώς και των εκπαιδευτικών που έχουν δανειστεί βιβλία από αυτήν την κατηγορία το προηγούμενο έτος.

Στην φόρμα αναζήτησης μπορείτε να επιλέξετε την κατηγορία που σας ενδιαφέρει (π.χ. Horror).



Εικόνα 15 Φόρμα αναζήτησης για το 3.1.2 Query

3.5.3 Query 3.1.3

Γίνεται ο εντοπισμός νέων εκπαιδευτικών (ηλικία < 40 ετών) που έχουν δανειστεί τον μεγαλύτερο αριθμό βιβλίων και παρουσίαση του συνολικού αριθμού των δανεισμένων βιβλίων αυτών.

3.5.4 Query 3.1.4

Γίνεται ο εντοπισμός των συγγραφέων των οποίων κανένα από τα βιβλία τους δεν έχει δανειστεί.

3.5.5 Query 3.1.5

Γίνεται ο εντοπισμός των χειριστών που έχουν δανείσει τον ίδιο αριθμό βιβλίων για περίοδο ενός έτους, με περισσότερους από 20 δανεισμούς.

3.5.6 Query 3.1.6

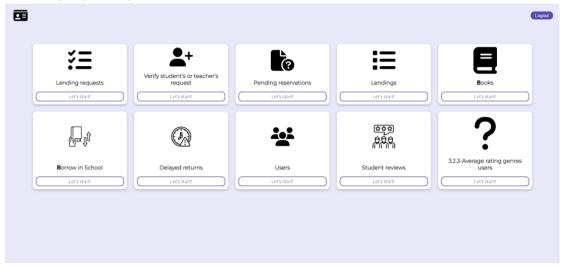
Γίνεται ο εντοπισμός των τριών κορυφαίων ζευγών πεδίων (π.χ. ιστορία και ποίηση) που εμφανίζονται συχνότερα στα δανεισμένα βιβλία.

3.5.7 Query 3.1.7

Γίνεται ο εντοπισμός όλων των συγγραφέων που έχουν γράψει τουλάχιστον 5 βιβλία λιγότερα από τον συγγραφέα με τα περισσότερα βιβλία.

4. Χειριστής

4.1 Κεντρική οθόνη

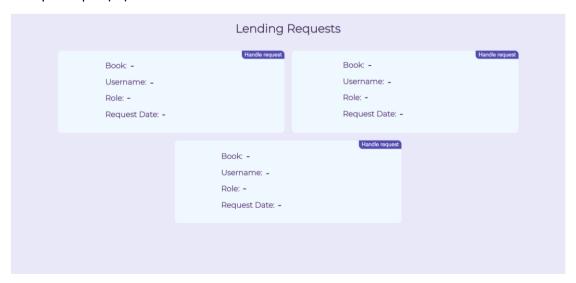


Εικόνα 16 Κεντρική οθόνη χειριστή

Ο χειριστής αναλαμβάνει τον ρόλο του υπεύθυνου της βιβλιοθήκης στο σχολείο του. Διαθέτει τη δυνατότητα να διαχειρίζεται και να έχει πρόσβαση σε σημαντικές πληροφορίες, όπως οι κρατήσεις και οι δανεισμοί βιβλίων, ο κατάλογος των βιβλίων (και άλλες πληροφορίες που σχετίζονται με αυτά), καθώς και τα στοιχεία των μαθητών και των καθηγητών του σχολείου.

4.2 Αιτήματα δανεισμού

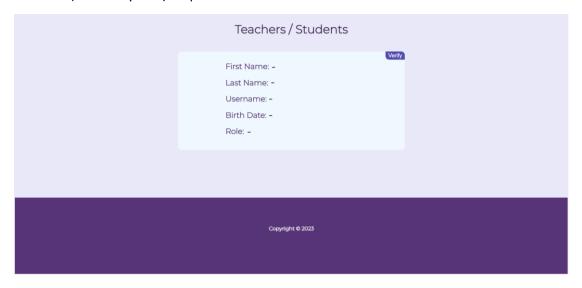
Με την κάρτα "Lending request" μπορείτε πατώντας το "Handle request" να επιβεβαιώσετε αν ο συγκεκριμένος χρήστης μπορεί να δανειστεί ένα βιβλίο. Για να μπορέσει να ολοκληρωθεί ο δανεισμός με επιτυχία θα πρέπει ο χρήστης να μην έχει το ίδιο βιβλίο στην κατοχή του, να μην έχει καθυστερήσει την επιστροφή κάποιου βιβλίου και να μην έχει δανειστεί περισσότερα από τον επιτρεπόμενο αριθμό βιβλίων ανάλογα με την ιδιότητα του (μαθητής ή καθηγητής). Επιπλέον, εάν δεν υπάρχει διαθέσιμο το βιβλίο τότε γίνεται αυτόματα κράτηση.



Εικόνα 17 Αιτήματα δανεισμού

4.3 Επιβεβαίωση αιτήματος χρήστη

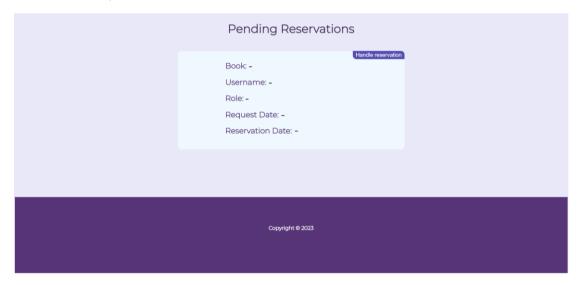
Όπως και στον διαχειριστή, το να επιβεβαιωθεί ένας καινούριος χρήστης γίνεται απλά πατώντας το "Verify" στην κάρτα του.



Εικόνα 18 Αιτήματα νέου χρήστη

4.4 Εκκρεμείς κρατήσεις

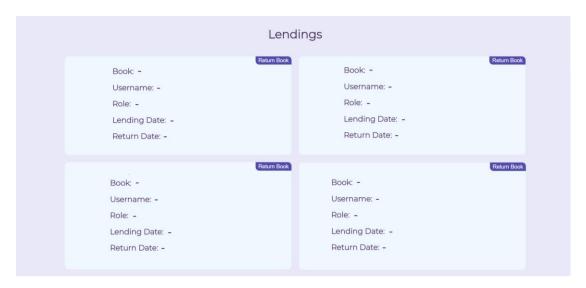
Στην κάρτα "Pending Reservations" βρίσκονται οι κρατήσεις που δεν είχαν εξυπηρετηθεί επειδή δεν υπήρχε κάποιο αντίτυπο.



Εικόνα 19 Εκκρεμείς κρατήσεις

4.5 Κρατήσεις

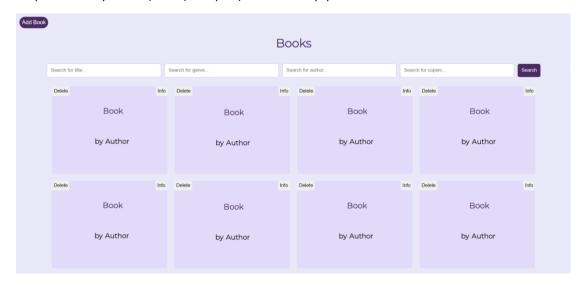
Εδώ μπορεί ο χειριστής πατώντας "Return Book" να επιβεβαιώσει ότι το βιβλίο έχει επιστραφεί στην βιβλιοθήκη του σχολείου.



Εικόνα 20 Κρατήσεις

4.6 Βιβλία

Παρακάτω παρουσιάζεται η κεντρική σελίδα των βιβλίων.



Εικόνα 21 Βιβλία στον χειριστή

4.6.1 Προσθήκη Βιβλίου

Πατώντας το κουμπί "Add Book" πάνω αριστερά εμφανίζεται η φόρμα συμπλήρωσης του νέου βιβλίου.

Add Book	
Title:	
Publisher:	
ISBN:	
Page number:	
Summary:	
Copies:	
Image:	
Language: Keywords:	
Genres:	
Writers:	
Submit	

Εικόνα 22 Προσθήκη βιβλίου

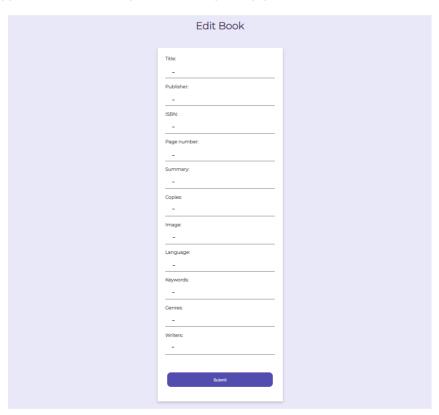
4.6.2 Προβολή και επεξεργασία των πληροφορίων ενός Βιβλίου

Για να μπορέσετε να έχετε πρόσβαση στις πληροφορίες ενός βιβλίου, επιλέξτε το κουμπί "Info".



Εικόνα 23 Κάρτα πληροφοριών βιβλίου στον χειριστή

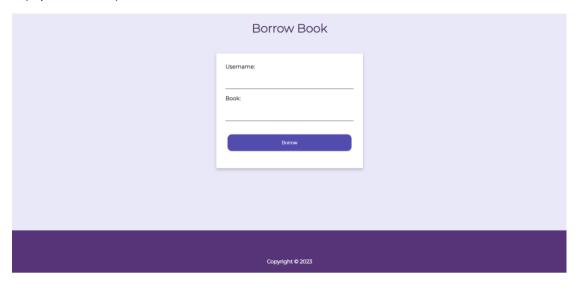
Έπειτα το κουμπί "Edit" σας δίνει την δυνατότητα να επεξεργαστείτε αυτά τα στοιχεία και να τα προσαρμόσετε σε πιο αντιπροσωπευτικά για το βιβλίο.



Εικόνα 24 Φόρμα επεξεργασίας βιβλίου

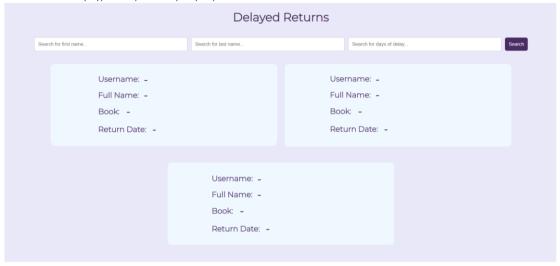
4.7 Δανεισμός από το σχολείο

Με την "Borrow Book" ένας χρήστης μπορεί να δανειστεί ένα βιβλίο χωρίς να κάνει πρώτα ηλεκτρονικό αίτημα. Η διαδικασία θα ολοκληρωθεί με επιτυχία εάν ο χρήστης πληρεί και πάλι τις προϋποθέσεις.



Εικόνα 25 Δανεισμός βιβλίου από το σχολείο

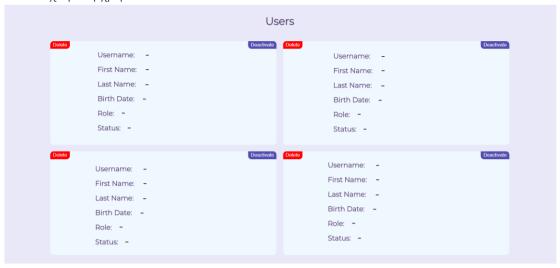
4.8 Καθυστερημένες επιστροφές



Εικόνα 26 Καθυστερημένες επιστροφές

Στην "Delayed Returns" εμφανίζονται οι δανεισμοί που έχουν καθυστερήσει να επιστραφούν πριν το επιτρεπτό χρονικό διάστημα (ένας μήνας). Με την φόρμα αναζήτησης μπορείτε να εντοπίστε εάν κάποιο επίθετο, όνομα και διάστημα καθυστέρησης ανήκει στην συγκεκριμένη λίστα.

4.9 Διαχείριση χρηστών

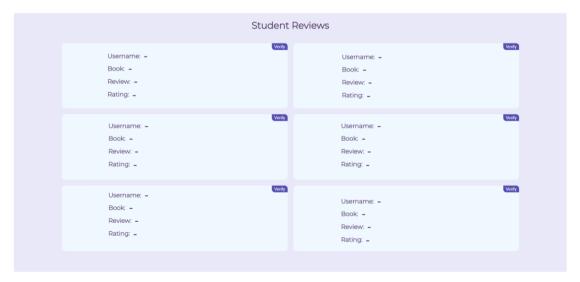


Εικόνα 27 Χρήστες

Στην κάρτα "Users" εμφανίζονται όλοι χρήστες του συγκεκριμένου σχολείου. Το να διαγράψετε και το να απενεργοποιήσετε κάποιον χρήστη είναι εφικτό ενεργοποιώντας το κουμπί "Delete" ή "Deactivate" αντίστοιχα.

4.10 Επιβεβαίωση αξιολογήσεων

Στην κάρτα "Student Reviews" γίνεται η επιβεβαίωση των αξιολογήσεων των μαθητών για τα βιβλία που έχουν διαβάσει.



Εικόνα 28 Αξιολογήσεις μαθητών

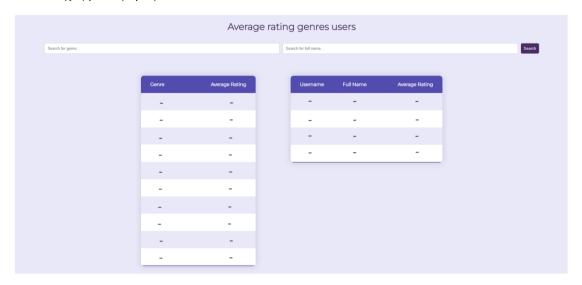
Η μορφή του "Ratings" δίνει την οπτικοποιημένη αξιολόγηση των μαθητών.



Εικόνα 29 Μορφή του Rating

4.11 Μέσος Όρος Αξιολογήσεων ανά δανειζόμενο και κατηγορία

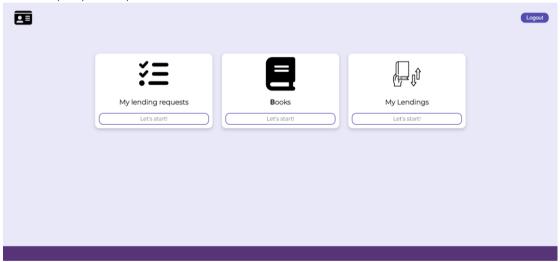
Ως χειριστής ακόμη έχετε την δυνατότητα να γνωρίζεται τον μέσο όρο αξιολογήσεων ανά δανειζόμενο και κατηγορία στην κάρτα "Average rating genres users". Μπορείτε ακόμη να αναζητήσετε μια κατηγορία, έναν δανειζόμενο ή έναν συνδυασμότους και να εμφανιστεί ο αντίστοιχος μέσος όρος.



Εικόνα 30 Μέσος Όρος Αξιολογήσεων ανά δανειζόμενο και κατηγορία

5 Χρήστες

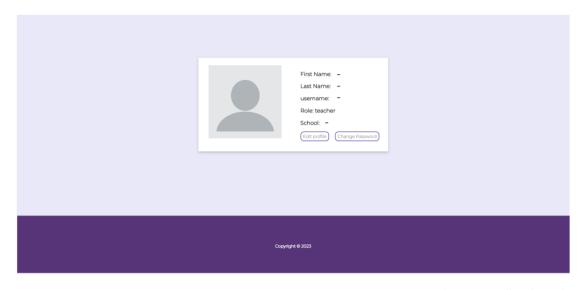
5.1 Κεντρική οθόνη



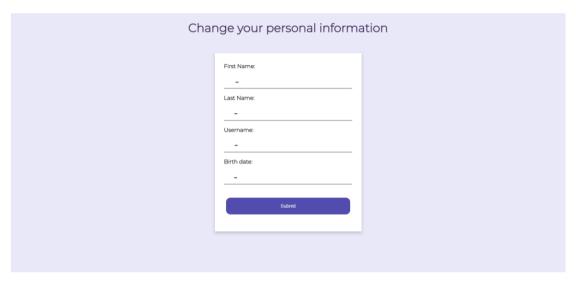
Εικόνα 31 Κεντρική οθόνη των χρηστών

5.2 Επεξεργασία προφίλ καθηγητή

Στις γενικές λειτουργίες κάθε χρήστη κατατάσσεται το προφίλ. Η διαφορά στους χρήστες-καθηγητές είναι ότι μπορούν να επεξεργάζονται και τα στοιχεία τους με το "Edit profile".



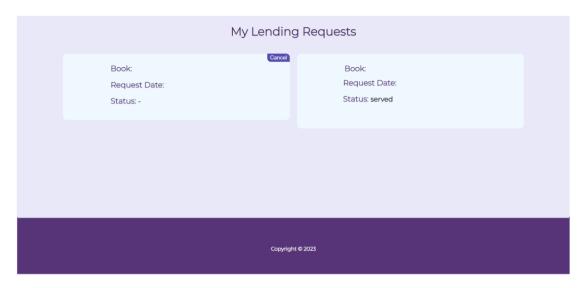
Εικόνα 32 Προφίλ καθηγητών



Εικόνα 33 Εξεργασία των στοιχείων του καθηγητή

5.3 Κρατήσεις

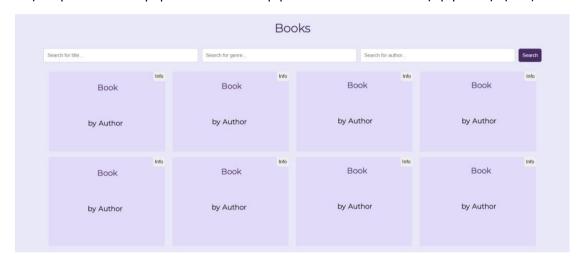
Στην κάρτα "My Lending Requests" μπορείτε εύκολα να δείτε έναν η κράτηση που έχετε κάνει έχει εξυπηρετηθεί με το "Status: served". Ακόμη μπορείτε να ακυρώσετε μια κράτηση με το "Cancel" εάν βέβαια δεν έχει εξυπηρετηθεί.



Εικόνα 34 Αιτήματα κρατήσεων

5.4 Βιβλία

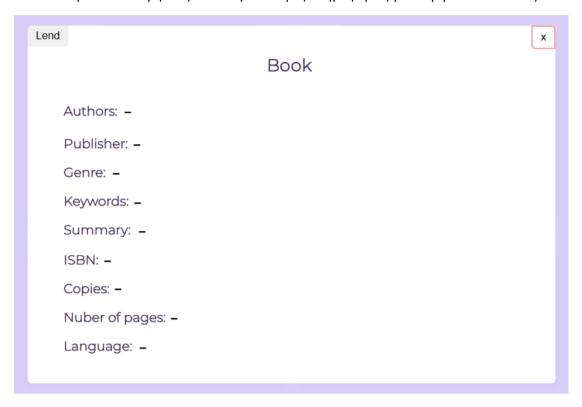
Στην κάρτα "Books" προβάλλονται όλα τα βιβλία που διατίθενται στην βιβλιοθήκη σας.



Εικόνα 35 Βιβλία στους χρήστες

5.4.1 Πληροφορίες Βιβλίου

Με το κουμπί "Info" εμφανίζονται περισσότερες πληροφορίες για το βιβλίο που επιλέξατε.



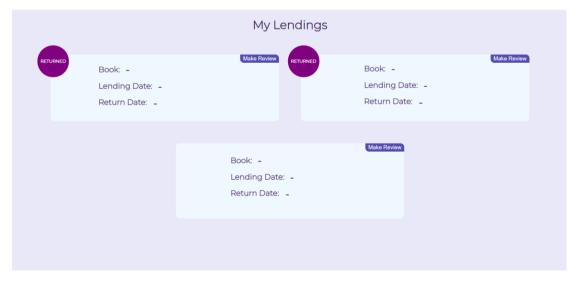
Εικόνα 36 Πληροφορίες των βιβλίων στους χρήστες

5.4.2 Αίτημα κράτησης

Μέσα στην κάρτα με τις πληροφορίες του βιβλίου υπάρχει το κουμπί "Lend" με το οποίο η ηλεκτρονική κράτηση γίνεται επιτεύξιμη.

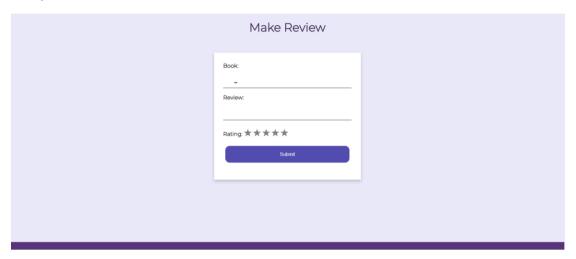
5.5 Προβολή και αξιολόγηση Δανεισμών

Στην κάρτα "My Lendings" παρουσιάζονται τα βιβλία που έχτε δανειστεί. Επίσης, σας γίνεται αντιληπτό εάν έχετε επιστρέψει ή όχι το βιβλίο με "RETURNED".



Εικόνα 37 Κρατήσεις ενός χρήστη

Πατώντας το κουμπί "Make Review" σας δίνεται η δυνατότητα να αξιολογήσετε το βιβλίο που έχετε διαβάσει γράφοντας ένα κείμενο και να επιλέξετε την αντίστοιχη βαθμολογία με αστεράκια.



Εικόνα 38 Αξιολόγηση Βιβλίου

Αναλυτικά βήματα εγκατάστασης της εφαρμογής

Για την εγκατάσταση της εφαρμογής από το Github και την σύνδεσή της με μια τοπική βάση δεδομένων MySQL, ακολουθήστε τα παρακάτω βήματα:

1. Εγκατάσταση της NodeJS

- ο Επισκεφθείτε τον ιστότοπο της NodeJS (https://nodejs.org/) και κατεβάστε την τελευταία έκδοση της NodeJS για το λειτουργικό σας σύστημα.
- ο Ακολουθήστε τις οδηγίες εγκατάστασης που παρέχονται για το σύστημά σας.

2. Εγκατάσταση της MySQL

- Κατεβάστε και εγκαταστήστε την τελευταία έκδοση της MySQL για το λειτουργικό σας σύστημα από τον επίσημο ιστότοπο της MySQL (https://www.mysql.com/).
- Ο Ακολουθήστε τις οδηγίες εγκατάστασης που παρέχονται για το σύστημά σας.
- Σημειώστε το όνομα χρήστη και τον κωδικό πρόσβασης που θα χρησιμοποιήσετε για την πρόσβαση στην βάση δεδομένων.

3. Λήψη και εγκατάσταση της εφαρμογής από το Github

- ο Επισκεφτείτε την σελίδα του repository της εφαρμογής στο Github.
- ο Κάντε κλικ στο κουμπί "Code" και αντιγράψτε τον σύνδεσμο του repository.
- ο Ανοίξτε ένα command prompt και μεταβείτε στο C:// εκτελώντας "cd C://".
- Εκτελέστε την εντολή "git clone <repository_url>" έτσι ώστε τα αρχεία της εφαρμογής να εγκατασταθούν σε ένα directory με την ονομασία "persefoniDB".

4. Εγκατάσταση των εξαρτήσεων του έργου

- Στο ίδιο command prompt κάντε "cd persefoniDB/backend" για να μεταβείτε στον φάκελο με τα αρχεία της NodeJS της εφαρμογής.
- Εκτελέστε την εντολή "npm install" για να εγκαταστήσετε όλες τις εξαρτήσεις που απαιτούνται από το έργο. Αυτό θα δημιουργήσει έναν φάκελο "node_modules" με όλα τα πακέτα που χρειάζεται η εφαρμογή.

5. Ρύθμιση της σύνδεσης με την βάση και άλλων configurations

- Ανοίξτε το αρχείο "config.env" στον φάκελο "backend" και τροποποιήστε τον σύμφωνα με τα παρακάτω.
- Τα <db_username> και <db_password> αναφέρονται στο όνομα χρήστη και τον κωδικό πρόσβασης που ορίσατε με την εγκατάσταση της βάσης δεδομένων.
- Τα <db_instancename> και <db_port> αναφέρονται στο όνομα και την θύρα του συγεκριμένου instance της MySQL που χρησιμοποιείτε (πχ root και 3036).
- ο To <db_name> αναφέρεται στο όνομα της βάσης δεδομένων.

6. Εκτέλεση της εφαρμογής

- Στο command prompt εκτελέστε την εντολή "npm start" μέσα στον φάκελο "backend".
- ο Ανοίξτε έναν browser της επιλογής σας και μεταβείτε στο "http://localhost:3000".

Αλλαγή μεταβλητής συστήματος

Για να είναι δυνατή η δημιουργία αντιγράφου ασφαλείας της βάσης δεδομένων (backup) και επαναφορά του συστήματος από αυτό (restore) από τον κεντρικό διαχειριστή όλου του συστήματος, θα πρέπει να ακολουθήσετε την παρακάτω διαδικασία, που θα επιτρέψει στην MySQL να έχει πρόσβαση στον φάκελο με τα αρχεία της εφαρμογής:

- Ανοίξτε τον File Explorer και στην μπάρα λειτουργιών στο πάνω μέρος της οθόνης επιλέξτε View -> Hidden Items, ώστε να είναι πλέον ορατά και τα κρυμμένα αρχεία.
- \circ Επιλέξτε Program Data -> MySQL -> MySQL Server 8.0 και ανοίξτε το αρχείο my.ini με δικαιώματα administrator σε κάποιον editor της επιλογής σας.
- ο Βρείτε στο αρχείο αυτό την μεταβλητή συστήματος "secure_file_priv" και αλλάξτε την τιμή της σε κενό, ως εξής: secure_file_priv: "".
- Στην συνέχεια επανεκκινήστε την MySQL, ανοίγοντας το services.msc και βρίσκοντας την επιλογή MySQL -> Restart.

Δημιουργία της Βάσης

Τέλος, για να δημιουργήσετε την τοπική βάση δεδομένων σας και να την γεμίσετε με δεδομένα μπορείτε να εκτελέσετε τα sql scripts που βρίσκονται στον φάκελο "DML+DDL scripts" (πρώτα το create_database.sql και μετά το legitdummydata.sql), αλλάζοντας το <db_name> στο όνομα που έχετε δώσει στην βάση σας.

Σύνδεσμος git repo https://github.com/vassilikim/persefoniDB