PROJECT ΒΑΣΕΙΣ ΔΕΔΟΜΕΝΩΝ 2021-2022

ΜΑΡΟΥΛΗΣ ΠΑΝΑΓΙΩΤΗΣ 1072593 ΜΕΡΟΣ Β

ΜΟΥΣΤΑΚΙ ΑΛΕΞΑΝΔΡΟΣ 1072532 ΜΕΡΟΣ Β

ΧΑΛΚΙΟΠΟΥΛΟΣ ΝΙΚΟΛΑΟΣ 1072572 ΜΕΡΟΣ Α

ΑΝΑΦΟΡΑ:

1. Για να εντάξουμε στη βάση τους πίνακες customer, employee και administrator βρήκαμε βοηθητικό να χρησιμοποιήσουμε μια δομή ISA με έναν ακόμα πίνακα ''υπερκλάσης'' user. Οι περισσότερες βασικές πληροφορίες εντάσσονται σε αυτόν όπως το email, ονοματεπώνυμο κτλ. Στους ειδικότερους πίνακες φυλάμε ένα ξεχωριστό ID το αντίστοιχο user_id και όποια ειδική πληροφορία χρειάζεται, όπως το είδος του πελάτη που δείχνει αν μπορεί να ενοικιάσει ταινίες σειρές ή και τα δύο.
2. Αντίστοιχα δημιουργήσαμε τον κατάλογο ως υπερκλάση των ταινιών και των επεισοδίων των σειρών, τα αντικείμενα δηλαδή προς ενοικίαση. Σε αυτόν τον πίνακα ακόμα κρατάμε και ένα πεδίο Boolean που σηματοδοτεί αν το αντικείμενο είναι διαθέσιμο για ενοικίαση.
3. Με παρόμοιο τρόπο που συσχετίζουμε κάθε ταινία με τις κατηγορίες της (πίνακας film_category) συσχετίζουμε τις σειρές και τις σεζόν. Όμοια και για τις συσχετίσεις με τους ηθοποιούς.
4. Για το procedure της άσκησης 1: για τις ταινίες αρκεί ένα left join (ώστε να συμπεριλαμβάνονται και οι ταινίες χωρίς ενοικιάσεις) μεταξύ του πίνακα film και το πεδίο inventory_id του πίνακα rental. Με αυτόν τον τρόπο μπορούμε με μία group by να μετρήσουμε πόσες ενοικιάσεις είχε κάθε ταινία στο ζητούμενο διάστημα. Αντίστοιχα δουλεύουμε και για τις σειρές. Χρειάζεται βέβαια να αθροίσουμε τις ενοικιάσεις των επεισοδίων σε έναν μετρητή για τις σεζόν και σε επόμενο βήμα για τις σειρές. Για να το πετύχουμε αυτό χρησιμοποιούμε άλλα 2 εμφωλευμένα inner join που σε κάθε επίπεδο μας δίνουν το άθροισμα τον ενοικιάσεων των σεζόν αρχικά και έπειτα των σειρών.
5. Για το procedure της άσκησης 2: αποθηκεύουμε σε μία μεταβλητή το customer_id του πελάτη με το ζητούμενο email. Μετά εύκολα με τη συνάρτηση count μετράμε τις ενοικιάσεις του πελάτη την ημέρα που μας ενδιαφέρει. Το αποτέλεσμα δεν τυπώνεται, αλλά επιστρέφεται στην OUT μεταβλητή result (για να χρησιμοποιηθεί μετά εύκολα από το trigger τις άσκησης 4.2).
6. Για το procedure της άσκησης 3: Χρειαζόμαστε το OUTER JOIN 2 πινάκων. Ο πρώτος θα περιέχει το άθροισμα των πληρωμών από τις ταινίες και τον μήνα και χρόνο που πραγματοποιήθηκαν. Ο δεύτερος είναι αντίστοιχος αλλά για τις σειρές. Επειδή το OUTER JOIN δεν υποστηρίζεται από την έκδοση της mysql που χρησιμοποιούμε, αντί αυτού παίρνουμε το union των LEFT και RIGHT JOIN των δύο πινάκων. Χρειαζόμαστε συγκεκριμένα OUTER JOIN

ώστε σε ένα πίνακα να εμφανίζονται πάντα και τα 3 πεδία που μας ενδιαφέρουν (ημερομηνία, κέρδη ταινιών, κέρδη σειρών) ακόμα και αν σε μία συγκεκριμένη ημερομηνία υπάρχουν μόνο σειρές ή μόνο ταινίες. Επίσης αν δεν υπάρχουν πληρωμές ταινιών ή σειρών σε κάποια ημερομηνία με την εντολή IFNULL(movie_earnings,0) αντί να εμφανίζεται ένδειξη NULL εμφανίζεται το πιο κατάλληλο '0'.

7. Για τα procedure της άσκησης 4: Χρησιμοποιούμε τη συνάρτηση STRCMP για να συγκρίνουμε τα strings που δίνονται με την κλήση του Procedure.

8. Για τα trigger της άσκησης 1: Σημειώνουμε πως είναι σημαντικό το trigger να εκτελείται σε AFTER EVENT χρόνο για να βεβαιωνόμαστε πως στο log περνάνε μόνο ενέργειες που πράγματι εφαρμόστηκαν.

9. Για το trigger της άσκησης 2: Σε χρόνο BEFORE INSERT στον πίνακα rental χρησιμοποιούμε το procedure της άσκησης 2 για να εισάγουμε σε μία μεταβλητή τον αριθμό ενοικιάσεων του χρήστη. Ελέγχουμε με την συνάρτηση MOD αν ο μετρητής αυτός είναι πολλαπλάσιο του 3 και αν όντως είναι ρυθμίζουμε ανάλογο το πεδίο discount.

10. Για το trigger της άσκησης 3: Αποτρέπουμε τους πελάτες από το να αλλάζουν το email ή την ημερομηνία εγγραφής τους.
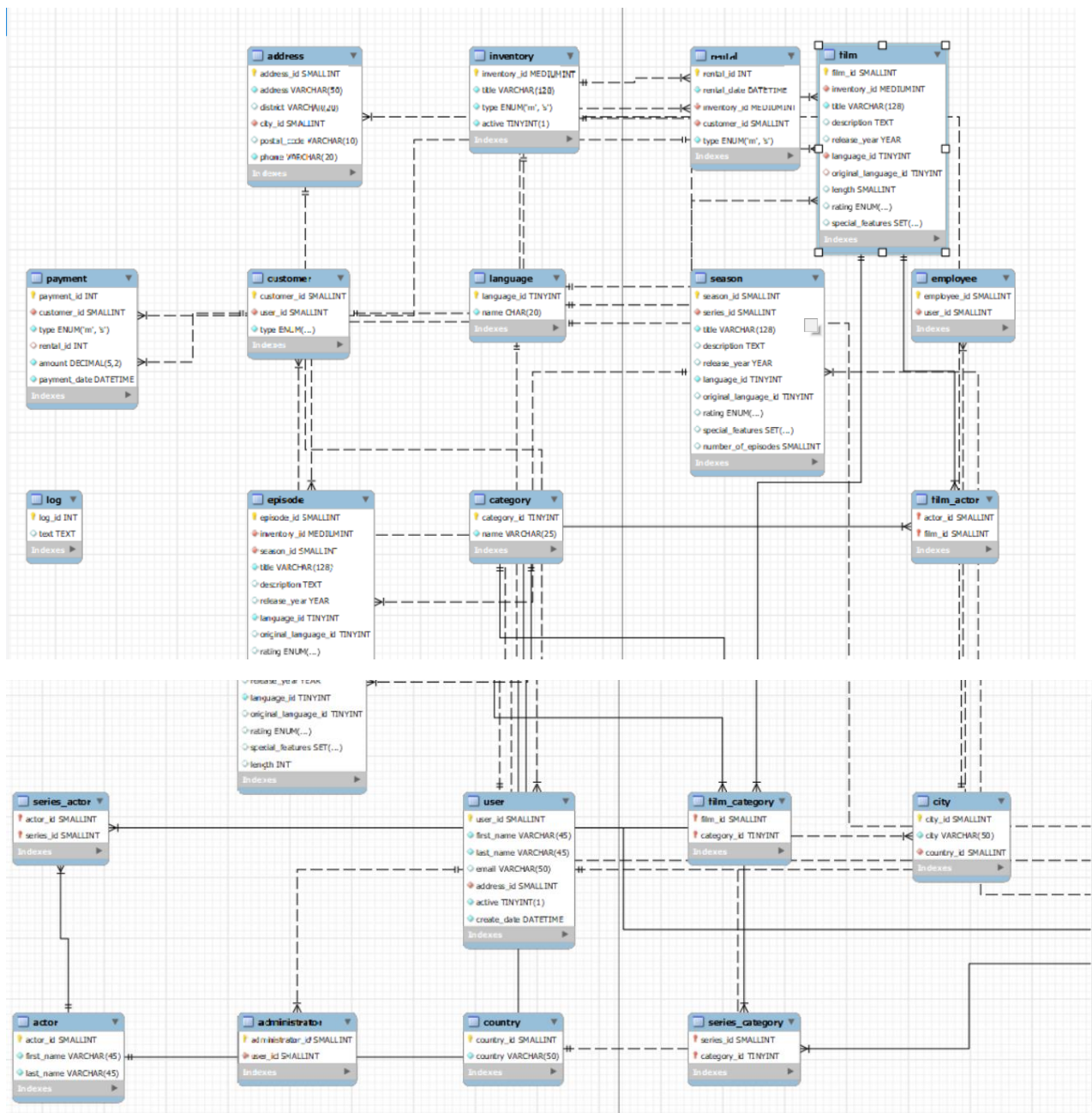
ΓΙΑ ΤΟ GUI:

1. Το γραφικό μας περιβάλλον αποτελείται από 4 κύρια παράθυρα. Ένα αρχικό παράθυρο όπου ο χρήστης δίνοντας το email του συνδέεται στον λογαριασμό του και ανάλογα με το τί είδους χρήστης είναι παραπέμπεται σε αντίστοιχο νέο παράθυρο.

2. Παράθυρο customer: Σε αυτό το παράθυρο εμφανίζονται τα στοιχεία του χρήστη και δίνονται 4 βασικές λειτουργίες. Ο χρήστης μπορεί να δει όλες τις ενοικιάσεις που έχει πραγματοποιήσει, μπορεί να δει όλα τα αντικείμενα προς ενοικίαση που του είναι διαθέσιμα (ανάλογα με το είδους πελάτη και ποια αντικείμενα είναι προσωρινά active), μπορεί να κάνει μία καινούρια ενοικίαση πληκτρολογώντας τον κωδικό του επιθυμητού αντικειμένου και τέλος έχει τη δυνατότητα να αλλάξει όλα τα προσωπικά του στοιχεία εκτός του email του και της ημερομηνίας εγγραφής του.

3. Παράθυρο employee: Αρχικά εμφανίζει όλους τους customers και τα emails τους. Από εκεί δίνεται η δυνατότητα να επιλεχθεί οποιοδήποτε customer. Ο employee μπορεί να δει και να αλλάξει όλα τα στοιχεία του επιλεγμένου customer, να δει έναν πίνακα με όλα τα rentals που έχουν πραγματοποιηθεί. Επίσης δίνεται η δυνατότητα να εμφανιστούν οι 5 καλύτερες ταινίες και σειρές του προηγούμενου μήνα.

Ενδεικτικές κλήσεις procedures:

1. CALL ASK1('m', 3 ,'2005-06-15 01:25:08','2005-08-23 18:01:31');
2. CALL ASK2('MARSHALL.THORN@sakilacustomer.org','2005-08-17',@b); SELECT @b;
3. CALL ASK3();
4. CALL ASK4_1('at','be');
5. CALL ASK4_2('miranda');
6. Για το 2ο trigger:

```sql
        INSERT INTO `rental` (`rental_id`, `rental_date`, `inventory_id`, `customer_id`,
        `type`,`discount`) VALUES

(DEFAULT, NOW(), 4, 21,'m',DEFAULT),

(DEFAULT, NOW(), 4, 21,'m',DEFAULT),

(DEFAULT, NOW(), 4, 21,'m',DEFAULT),

(DEFAULT, NOW(), 4, 21,'m',DEFAULT),

(DEFAULT, NOW(), 4, 21,'m',DEFAULT),

(DEFAULT, NOW(), 4, 21,'m',DEFAULT),

(DEFAULT, NOW(), 4, 21,'m',DEFAULT),

(DEFAULT, NOW(), 4, 21,'m',DEFAULT),

(DEFAULT, NOW(), 4, 21,'m',DEFAULT),

(DEFAULT, NOW(), 4, 21,'m',DEFAULT),

(DEFAULT, NOW(), 4, 21,'m',DEFAULT),

(DEFAULT, NOW(), 4, 21,'m',DEFAULT),

(DEFAULT, NOW(), 4, 21,'m',DEFAULT),

(DEFAULT, NOW(), 4, 21,'m',DEFAULT);

SELECT customer_id,discount,DATE(rental_date) from rental WHERE
DATE(rental_date)=DATE(NOW()) ORDER BY rental_date DESC, customer_id ;
```

SCHEMA:

ΚΩΔΙΚΑΣ mySQL:

DROP DATABASE MOVIESONDEMAND;

CREATE DATABASE MOVIESONDEMAND;

USE MOVIESONDEMAND;

```sql
CREATE TABLE actor (

 actor_id SMALLINT UNSIGNED NOT NULL AUTO_INCREMENT,

 first_name VARCHAR(45) NOT NULL,

 last_name VARCHAR(45) NOT NULL,

 PRIMARY KEY  (actor_id)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;




CREATE TABLE country (

 country_id SMALLINT UNSIGNED NOT NULL AUTO_INCREMENT,

 country VARCHAR(50) NOT NULL,

 PRIMARY KEY  (country_id)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;




CREATE TABLE city (

 city_id SMALLINT UNSIGNED NOT NULL AUTO_INCREMENT,

 city VARCHAR(50) NOT NULL,

 country_id SMALLINT UNSIGNED NOT NULL,

 PRIMARY KEY  (city_id),
```

CONSTRAINT `fk_city_country` FOREIGN KEY (country_id) REFERENCES country (country_id) ON DELETE RESTRICT ON UPDATE CASCADE

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

CREATE TABLE address (

  address_id SMALLINT UNSIGNED NOT NULL AUTO_INCREMENT,

  address VARCHAR(50) NOT NULL,

  district VARCHAR(20) DEFAULT NULL,

  city_id SMALLINT UNSIGNED NOT NULL,

  postal_code VARCHAR(10) DEFAULT NULL,

  phone VARCHAR(20) NOT NULL,

  PRIMARY KEY (address_id),

  CONSTRAINT `fk_address_city` FOREIGN KEY (city_id) REFERENCES city (city_id) ON DELETE RESTRICT ON UPDATE CASCADE

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

CREATE TABLE category (

  category_id TINYINT UNSIGNED NOT NULL AUTO_INCREMENT,

  name VARCHAR(25) NOT NULL,

  PRIMARY KEY (category_id)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

```sql
CREATE TABLE language (

 language_id TINYINT UNSIGNED NOT NULL AUTO_INCREMENT,

 name CHAR(20) NOT NULL,

 PRIMARY KEY (language_id)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;




CREATE TABLE user (

 user_id SMALLINT UNSIGNED NOT NULL AUTO_INCREMENT,

 first_name VARCHAR(45) NOT NULL,

 last_name VARCHAR(45) NOT NULL,

 email VARCHAR(50) DEFAULT NULL,

 address_id SMALLINT UNSIGNED NOT NULL,

 active BOOLEAN NOT NULL DEFAULT TRUE,

 create_date DATETIME NOT NULL,

 PRIMARY KEY  (user_id),

 UNIQUE (email),

 CONSTRAINT fk_customer_address FOREIGN KEY (address_id) REFERENCES address (address_id) ON
DELETE RESTRICT ON UPDATE CASCADE

 )ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;




CREATE TABLE customer (

 customer_id SMALLINT UNSIGNED NOT NULL AUTO_INCREMENT,

 user_id SMALLINT UNSIGNED NOT NULL,

 type ENUM('OO','OS','MO','MS') NOT NULL,

 PRIMARY KEY(customer_id),
```

```sql
  CONSTRAINT fk_user_customer FOREIGN KEY (user_id) REFERENCES user (user_id) ON DELETE
RESTRICT ON UPDATE CASCADE

  )ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;


CREATE TABLE employee (

  employee_id SMALLINT UNSIGNED NOT NULL REFERENCES user(user_id) ON DELETE CASCADE ON
UPDATE CASCADE,

  user_id SMALLINT UNSIGNED NOT NULL,

  PRIMARY KEY(employee_id),

  CONSTRAINT fk_user_employee FOREIGN KEY (user_id) REFERENCES user (user_id) ON DELETE
RESTRICT ON UPDATE CASCADE

  )ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;


CREATE TABLE administrator (

  administrator_id SMALLINT UNSIGNED NOT NULL REFERENCES user(user_id) ON DELETE CASCADE ON
UPDATE CASCADE,

  user_id SMALLINT UNSIGNED NOT NULL,

  PRIMARY KEY(administrator_id),

  CONSTRAINT fk_user_administrator FOREIGN KEY (user_id) REFERENCES user (user_id) ON DELETE
RESTRICT ON UPDATE CASCADE

  )ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;


CREATE TABLE inventory (

  inventory_id MEDIUMINT UNSIGNED NOT NULL AUTO_INCREMENT,

  title VARCHAR(128) NOT NULL DEFAULT 'UNKNOWN',

  type ENUM('m','s') DEFAULT 'm' NOT NULL,

  active BOOLEAN NOT NULL DEFAULT TRUE,

  PRIMARY KEY  (inventory_id)
```

```
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;



CREATE TABLE film (

 film_id SMALLINT UNSIGNED NOT NULL AUTO_INCREMENT,

 inventory_id MEDIUMINT UNSIGNED NOT NULL,

 title VARCHAR(128) NOT NULL,

 description TEXT DEFAULT NULL,

 release_year YEAR DEFAULT NULL,

 language_id TINYINT UNSIGNED NOT NULL,

 original_language_id TINYINT UNSIGNED DEFAULT NULL,

 length SMALLINT UNSIGNED DEFAULT NULL,

 rating ENUM('G','PG','PG-13','R','NC-17') DEFAULT 'G',

 special_features SET('Trailers','Commentaries','Deleted Scenes','Behind the Scenes') DEFAULT NULL,

 PRIMARY KEY  (film_id),

 CONSTRAINT fk_film_language FOREIGN KEY (language_id) REFERENCES language (language_id) ON
DELETE RESTRICT ON UPDATE CASCADE,

 CONSTRAINT fk_film_language_original FOREIGN KEY (original_language_id) REFERENCES language
(language_id) ON DELETE RESTRICT ON UPDATE CASCADE,

 CONSTRAINT fk_inventory_film FOREIGN KEY (inventory_id) REFERENCES inventory (inventory_id) ON
DELETE RESTRICT ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;



CREATE TABLE series (

 series_id SMALLINT UNSIGNED NOT NULL AUTO_INCREMENT,

 title VARCHAR(128) NOT NULL,

 description TEXT DEFAULT NULL,

 release_year YEAR DEFAULT NULL,
```

```sql
  language_id TINYINT UNSIGNED NOT NULL,

  original_language_id TINYINT UNSIGNED DEFAULT NULL,

  rating ENUM('G','PG','PG-13','R','NC-17') DEFAULT 'G',

  special_features SET('Trailers','Commentaries','Deleted Scenes','Behind the Scenes') DEFAULT NULL,

  number_of_seasons SMALLINT UNSIGNED DEFAULT 1,

  number_of_episodes_per_season SMALLINT UNSIGNED DEFAULT 1,

  PRIMARY KEY  (series_id),

  CONSTRAINT fk_series_language FOREIGN KEY (language_id) REFERENCES language (language_id) ON DELETE RESTRICT ON UPDATE CASCADE,

  CONSTRAINT fk_series_language_original FOREIGN KEY (original_language_id) REFERENCES language (language_id) ON DELETE RESTRICT ON UPDATE CASCADE

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;


CREATE TABLE season (

  season_id SMALLINT UNSIGNED NOT NULL AUTO_INCREMENT,

  series_id SMALLINT UNSIGNED NOT NULL,

  title VARCHAR(128) NOT NULL,

  description TEXT DEFAULT NULL,

  release_year YEAR DEFAULT NULL,

  language_id TINYINT UNSIGNED NOT NULL,

  original_language_id TINYINT UNSIGNED DEFAULT NULL,

  rating ENUM('G','PG','PG-13','R','NC-17') DEFAULT 'G',

  special_features SET('Trailers','Commentaries','Deleted Scenes','Behind the Scenes') DEFAULT NULL,

  number_of_episodes SMALLINT UNSIGNED DEFAULT 1,

  PRIMARY KEY  (season_id),

  CONSTRAINT `fk_series_season` FOREIGN KEY (series_id) REFERENCES series (series_id) ON DELETE RESTRICT ON UPDATE CASCADE

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;


CREATE TABLE episode (
```

```sql
  episode_id SMALLINT UNSIGNED NOT NULL AUTO_INCREMENT,

  inventory_id MEDIUMINT UNSIGNED NOT NULL,

  season_id SMALLINT UNSIGNED NOT NULL,

  title VARCHAR(128) NOT NULL,

  description TEXT DEFAULT NULL,

  release_year YEAR DEFAULT NULL,

  language_id TINYINT UNSIGNED NOT NULL,

  original_language_id TINYINT UNSIGNED DEFAULT NULL,

  rating ENUM('G','PG','PG-13','R','NC-17') DEFAULT 'G',

  special_features SET('Trailers','Commentaries','Deleted Scenes','Behind the Scenes') DEFAULT NULL,

  length INT UNSIGNED DEFAULT NULL,

  PRIMARY KEY  (episode_id),

  CONSTRAINT `fk_episode_season` FOREIGN KEY (season_id) REFERENCES season (season_id) ON DELETE RESTRICT ON UPDATE CASCADE,

  CONSTRAINT `fk_inventory_episode` FOREIGN KEY (inventory_id) REFERENCES inventory (inventory_id) ON DELETE RESTRICT ON UPDATE CASCADE

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;




CREATE TABLE film_actor (

  actor_id SMALLINT UNSIGNED NOT NULL,

  film_id SMALLINT UNSIGNED NOT NULL,

  PRIMARY KEY  (actor_id,film_id),

  CONSTRAINT fk_film_actor_actor FOREIGN KEY (actor_id) REFERENCES actor (actor_id) ON DELETE RESTRICT ON UPDATE CASCADE,

  CONSTRAINT fk_film_actor_film FOREIGN KEY (film_id) REFERENCES film (film_id) ON DELETE RESTRICT ON UPDATE CASCADE

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

```sql
CREATE TABLE film_category (

  film_id SMALLINT UNSIGNED NOT NULL,

  category_id TINYINT UNSIGNED NOT NULL,

  PRIMARY KEY (film_id, category_id),

  CONSTRAINT fk_film_category_film FOREIGN KEY (film_id) REFERENCES film (film_id) ON DELETE RESTRICT ON UPDATE CASCADE,

  CONSTRAINT fk_film_category_category FOREIGN KEY (category_id) REFERENCES category (category_id) ON DELETE RESTRICT ON UPDATE CASCADE

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;



CREATE TABLE series_category (

  series_id SMALLINT UNSIGNED NOT NULL,

  category_id TINYINT UNSIGNED NOT NULL,

  PRIMARY KEY (series_id, category_id),

  CONSTRAINT fk_series_category_series FOREIGN KEY (series_id) REFERENCES series (series_id) ON DELETE RESTRICT ON UPDATE CASCADE,

  CONSTRAINT fk_series_category_category FOREIGN KEY (category_id) REFERENCES category (category_id) ON DELETE RESTRICT ON UPDATE CASCADE

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;



CREATE TABLE series_actor (

  actor_id SMALLINT UNSIGNED NOT NULL,

  series_id SMALLINT UNSIGNED NOT NULL,

  PRIMARY KEY  (actor_id,series_id),

  CONSTRAINT fk_series_actor_actor FOREIGN KEY (actor_id) REFERENCES actor (actor_id) ON DELETE RESTRICT ON UPDATE CASCADE,

  CONSTRAINT fk_series_actor_series FOREIGN KEY (series_id) REFERENCES series (series_id) ON DELETE RESTRICT ON UPDATE CASCADE
```

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

CREATE TABLE rental (

 rental_id INT NOT NULL AUTO_INCREMENT,

 rental_date DATETIME NOT NULL,

 inventory_id MEDIUMINT UNSIGNED NOT NULL,

 customer_id SMALLINT UNSIGNED NOT NULL,

 type ENUM('m','s') DEFAULT 'm' NOT NULL,

 discount SMALLINT DEFAULT 0,

 PRIMARY KEY (rental_id),

 UNIQUE KEY (rental_date,inventory_id,customer_id),

 CONSTRAINT fk_rental_inventory FOREIGN KEY (inventory_id) REFERENCES inventory (inventory_id)
ON DELETE RESTRICT ON UPDATE CASCADE,

 CONSTRAINT fk_rental_customer FOREIGN KEY (customer_id) REFERENCES customer (customer_id) ON
DELETE RESTRICT ON UPDATE CASCADE

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

CREATE TABLE payment (

 payment_id INT UNSIGNED NOT NULL AUTO_INCREMENT,

 customer_id SMALLINT UNSIGNED NOT NULL,

 type ENUM('m','s') DEFAULT 'm' NOT NULL,

 rental_id INT DEFAULT NULL,

```sql
  amount DECIMAL(5,2) NOT NULL,

  payment_date DATETIME NOT NULL,

  PRIMARY KEY  (payment_id),

  CONSTRAINT fk_payment_rental FOREIGN KEY (rental_id) REFERENCES rental (rental_id) ON DELETE
SET NULL ON UPDATE CASCADE,

  CONSTRAINT fk_payment_customer FOREIGN KEY (customer_id) REFERENCES customer (customer_id)
ON DELETE RESTRICT ON UPDATE CASCADE

 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;



CREATE TABLE log (

  log_id INT UNSIGNED NOT NULL AUTO_INCREMENT,

  log_time DATETIME DEFAULT NOW(),

  text TEXT,

  PRIMARY KEY  (log_id)

 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;



DELIMITER $

CREATE PROCEDURE ASK1( IN eidos CHAR, IN a MEDIUMINT, IN date_start DATE, IN date_end DATE )

BEGIN

 IF(eidos LIKE 'm') THEN


  SELECT f.title, f.film_id, COUNT(r.inventory_id) AS VIEWS

  FROM FILM AS f

  LEFT JOIN

   (

    SELECT inventory_id
```

```sql
    FROM rental

    WHERE (type LIKE 'm' AND rental_date> date_start AND rental_date<date_end)


    ) AS r

  ON f.inventory_id=r.inventory_id

 GROUP BY f.inventory_id

 ORDER BY COUNT(f.inventory_id) DESC LIMIT a;


ELSEIF(eidos LIKE 's') THEN


SELECT seires.title,seires.series_id, IFNULL(sum(views_sezon),0) AS telika_views

FROM series AS seires

LEFT JOIN

 (

   SELECT series_id, sezon.season_id, sum(views_episodeiou) AS views_sezon

   FROM season as sezon

   INNER JOIN

   (

     SELECT season_id, episode_id, COUNT(*) AS views_episodeiou

     FROM episode AS e

     INNER JOIN rental AS r

     ON e.inventory_id = r.inventory_id

     WHERE (type LIKE 's' AND rental_date> date_start AND rental_date<date_end)

     GROUP BY episode_id


   ) AS episode_count

   ON sezon.season_id=episode_count.season_id

   GROUP BY sezon.season_id
```

```sql
   ) AS season_count

   ON  seires.series_id = season_count.series_id

   GROUP BY  series_id

   ORDER BY telika_views DESC

   LIMIT a;

 END IF;

END$

DELIMITER ;




DELIMITER $

CREATE PROCEDURE ASK2( IN mail VARCHAR(50), IN mera DATE, OUT result INT)

BEGIN


DECLARE id SMALLINT;

SELECT customer_id

INTO id

FROM customer AS c INNER JOIN user AS u ON c.user_id=u.user_id

WHERE u.email LIKE mail;


SELECT count(*) AS enoikiaseis

INTO result

FROM rental

WHERE DATE(rental_date)=mera

GROUP BY customer_id

HAVING id = customer_id;



END$
```

```sql
DELIMITER ;



DELIMITER $

CREATE PROCEDURE ASK3()

BEGIN


SELECT tainies.year_and_month, IFNULL(movie_earnings,0) AS Movie_Earnings ,
IFNULL(series_earnings,0) AS Series_Earnings

 FROM

  (

   SELECT DATE_FORMAT(payment_date, '%Y-%m') AS year_and_month, sum(amount) AS
movie_earnings

   FROM payment

   WHERE type LIKE 'm'

   GROUP BY year_and_month

   ) AS tainies



   LEFT JOIN



   (

   SELECT DATE_FORMAT(payment_date, '%Y-%m') AS year_and_month, sum(amount) AS
series_earnings

   FROM payment

   WHERE type LIKE 's'

   GROUP BY year_and_month

   ) AS seires

   ON tainies.year_and_month=seires.year_and_month


UNION
```

```sql
SELECT tainies.year_and_month, IFNULL(movie_earnings,0) AS Movie_Earnings,
IFNULL(series_earnings,0) AS Series_Earnings

 FROM

  (

  SELECT DATE_FORMAT(payment_date, '%Y-%m') AS year_and_month, sum(amount) AS
movie_earnings

   FROM payment

   WHERE type LIKE 'm'

   GROUP BY year_and_month

   ) AS tainies


   RIGHT JOIN


   (

   SELECT DATE_FORMAT(payment_date, '%Y-%m') AS year_and_month, sum(amount) AS
series_earnings

   FROM payment

   WHERE type LIKE 's'

   GROUP BY year_and_month

   ) AS seires

   ON tainies.year_and_month=seires.year_and_month;



END$
DELIMITER ;




DELIMITER $
```

```sql
CREATE PROCEDURE ASK4_1(IN name1 VARCHAR(45), IN name2 VARCHAR(45))

BEGIN


SELECT last_name, first_name

FROM actor

WHERE STRCMP(last_name,name1 )>=0  AND STRCMP(last_name, name2)<0

ORDER BY last_name,first_name;


SELECT count(*)

FROM actor

WHERE STRCMP(last_name,name1 )>=0  AND STRCMP(last_name, name2)<0;


END$

DELIMITER ;



DELIMITER $

CREATE PROCEDURE ASK4_2(IN name VARCHAR(45))

BEGIN


DECLARE  a INT;


SELECT last_name, first_name

FROM actor

WHERE STRCMP(last_name,name )=0

ORDER BY last_name,first_name;


SELECT count(*)

INTO a
```

```
FROM actor

WHERE STRCMP(last_name,name)=0;


IF (a>1) THEN

SELECT a AS actors_with_given_name;

END IF;


END$

DELIMITER ;



DELIMITER $

CREATE TRIGGER log_rental

AFTER INSERT ON rental

FOR EACH ROW

BEGIN

DECLARE name VARCHAR(128);

DECLARE t VARCHAR(250);


SELECT title

INTO name

FROM inventory

WHERE inventory_id=new.inventory_id;


SELECT

CONCAT('Customer ' ,new.customer_id, ' rented item titled: ',name)

INTO t;


INSERT INTO log VALUES (DEFAULT,DEFAULT,t);
```

```
END$

DELIMITER ;




DELIMITER $

CREATE TRIGGER log_rental_delete

AFTER DELETE ON rental

FOR EACH ROW

BEGIN


DECLARE t VARCHAR(250);



SELECT

CONCAT('Rental number ', old.rental_id, ' was deleted')

INTO t;


INSERT INTO log VALUES (DEFAULT,DEFAULT,t);


END$

DELIMITER ;



DELIMITER $

CREATE TRIGGER log_rental_update

AFTER UPDATE ON rental

FOR EACH ROW
```

```sql
BEGIN

DECLARE t VARCHAR(250);

SELECT
CONCAT('Rental number ', old.rental_id, ' was updated')
INTO t;

INSERT INTO log VALUES (DEFAULT,DEFAULT,t);

END$
DELIMITER ;


DELIMITER $
CREATE TRIGGER log_payment_insert
AFTER INSERT ON payment
FOR EACH ROW
BEGIN
DECLARE name VARCHAR(128);
DECLARE t VARCHAR(250);

SELECT
CONCAT('Customer ' ,new.customer_id, ' payed ',new.amount,' for the rental number ',new.rental_id)
INTO t;

INSERT INTO log VALUES (DEFAULT,DEFAULT,t);
```

```sql
END$

DELIMITER ;


DELIMITER $

CREATE TRIGGER log_payment_delete

AFTER DELETE ON payment

FOR EACH ROW

BEGIN


DECLARE t VARCHAR(250);


SELECT

CONCAT('Payment number ', old.payment_id, ' was deleted')

INTO t;


INSERT INTO log VALUES (DEFAULT,DEFAULT,t);


END$

DELIMITER ;
```

```sql
DELIMITER $

CREATE TRIGGER log_payment_update

AFTER UPDATE ON payment

FOR EACH ROW

BEGIN


DECLARE t VARCHAR(250);



SELECT

CONCAT('Payment number ', old.payment_id, ' was updated')

INTO t;


INSERT INTO log VALUES (DEFAULT,DEFAULT,t);


END$
DELIMITER ;
```

```sql
DELIMITER $

CREATE TRIGGER log_inventory_insert

AFTER INSERT ON inventory

FOR EACH ROW

BEGIN
```

```
DECLARE t VARCHAR(250);


IF new.type LIKE 'm' THEN

SELECT

CONCAT('A new movie titled ', new.title,' was added')

INTO t;


ELSE

SELECT

CONCAT('A new episode titled ', new.title,' was added')

INTO t;

END IF;


INSERT INTO log VALUES (DEFAULT,DEFAULT,t);


END$

DELIMITER ;




DELIMITER $

CREATE TRIGGER log_inventory_delete

AFTER DELETE ON inventory

FOR EACH ROW

BEGIN


DECLARE t VARCHAR(250);


IF old.type LIKE 'm' THEN
```

```
SELECT

CONCAT('A movie titled ', old.title,' was deleted')

INTO t;


ELSE

SELECT

CONCAT('An episode titled ', old.title,' was deleted')

INTO t;

END IF;


INSERT INTO log VALUES (DEFAULT,DEFAULT,t);


END$

DELIMITER ;
```

```
DELIMITER $

CREATE TRIGGER log_inventory_update

AFTER UPDATE ON inventory

FOR EACH ROW

BEGIN


DECLARE t VARCHAR(250);


IF old.type LIKE 'm' THEN

SELECT
```

```
        CONCAT('A movie titled ', old.title,' was updated')

        INTO t;


    ELSE

    SELECT

        CONCAT('An episode titled ', old.title,' was updated')

        INTO t;

    END IF;


    INSERT INTO log VALUES (DEFAULT,DEFAULT,t);


END$

DELIMITER ;




DELIMITER $

CREATE TRIGGER user_customer_update

BEFORE UPDATE ON user

FOR EACH ROW

BEGIN

    DECLARE flag BOOLEAN;


    SELECT EXISTS(

        SELECT customer_id

        FROM customer

        WHERE user_id=old.user_id

    )INTO flag;
```

```
IF (flag) THEN

    IF (old.email!=new.email)THEN

    SIGNAL SQLSTATE VALUE '45000'

    SET MESSAGE_TEXT = 'Customers cannnot change their own email.';

    END IF;

END IF;


END$

DELIMITER ;




DELIMITER $

CREATE TRIGGER rental_discount

BEFORE INSERT ON rental

FOR EACH ROW

BEGIN


DECLARE a SMALLINT;

DECLARE mail VARCHAR(50);

DECLARE u SMALLINT;


SELECT user_id

INTO u

FROM customer

where customer_id=new.customer_id;
```

```sql
SELECT email
into mail
FROM user
WHERE user_id=u;


CALL ASK2(mail,new.rental_date,a);



IF(MOD(a+1,3)=0) THEN
SET new.discount=50;
END IF;


END$
DELIMITER ;




INSERT INTO actor VALUES
(1,'PENELOPE','GUINESS'),
(2,'NICK','WAHLBERG'),
(3,'ED','CHASE'),
(4,'JENNIFER','DAVIS'),
(5,'JOHNNY','LOLLOBRIGIDA'),
(6,'BETTE','NICHOLSON'),
(7,'GRACE','MOSTEL'),
(8,'MATTHEW','JOHANSSON'),
(9,'JOE','SWANK'),
(10,'CHRISTIAN','GABLE'),
```

(11,'Itzel','Moyer'),

(12,'Thalia','Hernandez'),

(13,'Myla','Craig'),

(14,'Jazmine','Alvarez'),

(15,'Tristin','Banks'),

(16,'Aliyah','Holmes'),

(17,'Joselyn','Curtis'),

(18,'Harper','Walters'),

(19,'Augustus','Kent'),

(20,'Gaige','Compton'),

(21,'Tommy','Ewing'),

(22,'Denzel','Mathis'),

(23,'Karli','Vaughan'),

(24,'Milagros','Tate'),

(25,'Cordell','Richard'),

(26,'Adrien','Miranda'),

(27,'Denise','Wolf'),

(28,'Genesis','Zamora'),

(29,'Manuel','Livingston'),

(30,'Layla','Buckley'),

(31,'Ishaan','Moss'),

(32,'Gilberto','Berry'),

(33,'Deanna','Coffey'),

(34,'Mckenzie','Hutchinson'),

(35,'Jovanny','Webster'),

(36,'Samantha','Peterson'),

(37,'Mila','Frederick'),

(38,'Jaiden','Owens'),

(39,'Adelyn','Boyle'),

(40,'Jamir','Benitez'),

(41,'Josue','Rich'),

(42,'Mateo','Lester'),

(43,'Alisha','Calderon'),

(44,'Cassidy','Miranda'),

(45,'Jasmin','Goodwin'),

(46,'Yasmin','Olsen'),

(47,'Jacquelyn','Jenkins'),

(48,'Kaylyn','Copeland'),

(49,'Malcolm','Potts'),

(50,'Sanai','Greene'),

(51,'Urijah','Hood'),

(52,'Amara','Barr'),

(53,'Taniyah','Mcconnell'),

(54,'Kaelyn','Rangel'),

(55,'Turner','Schmidt'),

(56,'Lennon','Hester'),

(57,'Brooklyn','Banks'),

(58,'Maleah','Oneal'),

(59,'Natalia','Conrad'),

(60,'Ross','Ayers'),

(61,'Antoine','Nicholson'),

(62,'Rylie','Luna'),

(63,'Ramon','Huff'),

(64,'Celia','Nunez'),

(65,'Tabitha','Ho'),

(66,'Dexter','Vargas'),

(67,'Jimmy','Deleon'),

(68,'Micah','Mcintosh'),

(69,'Franklin','Friedman'),

(70,'Lisa','Rodriguez'),

(71,'Lizbeth','Morton'),

(72,'Johnny','Santiago'),

(73,'Jaron','Rowe'),

(74,'William','Pittman'),

(75,'Trevor','Livingston'),

(76,'Averi','Downs'),

(77,'Jordan','Duke'),

(78,'Kyleigh','Rollins'),

(79,'Jude','Galloway'),

(80,'Marcy','Cruz'),

(81,'Reed','Foster'),

(82,'Mauricio','Wiggins'),

(83,'Dax','Santiago'),

(84,'Lorelai','Willis'),

(85,'Aditya','Richardson'),

(86,'Nylah','Horn'),

(87,'Jace','Duran'),

(88,'Ramiro','Andrade'),

(89,'Jasmine','Glover'),

(90,'Freddy','Simon'),

(91,'Ray','Jarvis'),

(92,'Rylee','Duncan'),

(93,'Kadyn','Gentry'),

(94,'Chandler','Hart'),

(95,'Julianne','Gallagher'),

(96,'Rosa','Mccullough'),

(97,'Sofia','Perry'),

(98,'Amir','Fuller'),

(99,'Saul','Case'),

(100,'Itzel','Mendoza'),

(101,'Dario','Escobar'),

(102,'Abel','Juarez'),

(103,'Michaela','Everett'),

(104,'Terry','Meadows'),

(105,'Alice','Lindsey'),

(106,'Tess','Parks'),

(107,'Jaycee','Berg'),

(108,'Jordan','Crosby'),

(109,'Shayla','Dominguez'),

(110,'Greyson','Liu'),

(111,'Kimberly','Raymond'),

(112,'Brittany','Huffman'),

(113,'Marcel','Pennington'),

(114,'Asa','Sherman'),

(115,'Viviana','Mooney'),

(116,'Lillian','Buckley'),

(117,'Lorena','Johnson'),

(118,'Anabel','Hunt'),

(119,'Nina','Small'),

(120,'Rishi','Pope'),

(121,'Jaqueline','Watkins'),

(122,'Mariam','Wise'),

(123,'Dylan','Lambert'),

(124,'Tanner','Zhang'),

(125,'Janet','Cameron'),

(126,'Isabella','Crawford'),

(127,'Kyan','Tapia'),

(128,'Alexzander','Lin'),

(129,'Tyrone','Lamb'),

(130,'Cael','Welch'),

(131,'Gwendolyn','Savage'),

(132,'Monserrat','Curry'),

(133,'Addyson','Watkins'),

(134,'Lily','Wall'),

(135,'Davon','Sampson'),

(136,'Marissa','Mcconnell'),

(137,'Mitchell','Oconnell'),

(138,'Irvin','Booth'),

(139,'Teagan','Copeland'),

(140,'Victoria','Thomas'),

(141,'River','Barnes'),

(142,'Abel','Harvey'),

(143,'Genesis','Khan'),

(144,'Aden','Williams'),

(145,'Tyrell','Mclean'),

(146,'Trevor','Floyd'),

(147,'Declan','Kelly'),

(148,'Asia','Barber'),

(149,'Emilee','Bryant'),

(150,'Sophie','Fitzpatrick'),

(151,'Hazel','Bowman'),

(152,'Karla','Duarte'),

(153,'Levi','Mitchell'),

(154,'Emily','Gilmore'),

(155,'Donavan','Osborn'),

(156,'Yadira','Carey'),

(157,'Matteo','Campbell'),

(158,'Mareli','Shea'),

(159,'Carsen','Brooks'),

(160,'Jaylynn','Turner'),

(161,'Maleah','Fowler'),

(162,'Yosef','Maddox'),

(163,'Alessandro','Walls'),

(164,'Gideon','Durham'),

(165,'Aliana','Glover'),

(166,'Alia','Berg'),

(167,'Jada','Brennan'),

(168,'Aimee','Kirk'),

(169,'Rowan','Owen'),

(170,'Diamond','Monroe'),

(171,'Elliott','Blackwell'),

(172,'German','Oconnor'),

(173,'Glenn','Wallace'),

(174,'Conor','Willis'),

(175,'Breanna','Randall'),

(176,'Dylan','Roman'),

(177,'Simeon','Allen'),

(178,'Kali','Luna'),

(179,'Marin','Soto'),

(180,'Hillary','Meyer'),

(181,'Shania','Duffy'),

(182,'Kathleen','Hahn'),

(183,'Davin','Summers'),

(184,'Rashad','Noble'),

(185,'Judah','Doyle'),

(186,'Shaun','Mitchell'),

(187,'Kathryn','Fry'),

(188,'Lorena','Russo'),

(189,'Melanie','Tanner');

INSERT INTO `country` (`country_id`, `country`) VALUES

(34, 'France'),

(38, 'Germany'),

(39, 'Greece'),

(49, 'Italy'),

(87, 'Spain'),

(102, 'United Kingdom');

INSERT INTO `city` (`city_id`, `city`, `country_id`) VALUES

(92, 'Brest', 34),

(297, 'Le Mans', 34),

(543, 'Toulon', 34),

(544, 'Toulouse', 34),

(148, 'Duisburg', 38),

(160, 'Erlangen', 38),

(198, 'Halle/Saale', 38),

(325, 'Mannheim', 38),

(439, 'Saarbrcken', 38),

(477, 'Siegen', 38),

(575, 'Witten', 38),

(38, 'Athens', 39),

(401, 'Patras', 39),

(17, 'Alessandria', 49),

(70, 'Bergamo', 49),

(91, 'Brescia', 49),

(93, 'Brindisi', 49),

(309, 'Livorno', 49),

(511, 'Syrakusa', 49),

(551, 'Udine', 49),

(1, 'A Corua (La Corua)', 87),

(146, 'Donostia-San Sebastin', 87),

(181, 'Gijn', 87),

(388, 'Ourense (Orense)', 87),

(459, 'Santiago de Compostela', 87),

(88, 'Bradford', 102),

(149, 'Dundee', 102),

(312, 'London', 102),

(494, 'Southampton', 102),

(495, 'Southend-on-Sea', 102),

(496, 'Southport', 102),

(500, 'Stockport', 102),

(589, 'York', 102);

INSERT INTO `address` (`address_id`, `address`, `district`, `city_id`, `postal_code`, `phone`) VALUES

(407, '1346 Mysore Drive', 'Bretagne', 92, '61507', '516647474029'),

(166, '1740 Le Mans Loop', 'Pays de la Loire', 297, '22853', '168476538960'),

(108, '1386 Yangor Avenue', 'Provence-Alpes-Cte', 543, '80720', '449216226468'),

(39, '391 Callao Drive', 'Midi-Pyrnes', 544, '34021', '440512153169'),

(118, '442 Rae Bareli Place', 'Nordrhein-Westfalen', 148, '24321', '886636413768'),

(453, '319 Springs Loop', 'Baijeri', 160, '99552', '72524459905'),

(255, '1966 Tonghae Street', 'Anhalt Sachsen', 198, '36481', '567359279425'),

(200, '1074 Binzhou Manor', 'Baden-Wrttemberg', 325, '36490', '331132568928'),

(231, '430 Alessandria Loop', 'Saarland', 439, '47446', '669828224459'),

(199, '1792 Valle de la Pascua Place', 'Nordrhein-Westfalen', 477, '15540', '419419591240'),

(205, '68 Molodetno Manor', 'Nordrhein-Westfalen', 575, '4662', '146640639760'),

(7, '692 Joliet Street', 'Attika', 38, '83579', '448477190408'),

(602, '1101 Bucuresti Boulevard', 'West Greece', 401, '97661', '199514580428'),

(37, '127 Purnea (Purnia) Manor', 'Piemonte', 17, '79388', '911872220378'),

(444, '231 Kaliningrad Place', 'Lombardia', 70, '57833', '575081026569'),

(314, '1224 Huejutla de Reyes Boulevard', 'Lombardia', 91, '70923', '806016930576'),

(504, '1 Valle de Santiago Avenue', 'Apulia', 93, '86208', '465897838272'),

(547, '379 Lublin Parkway', 'Toscana', 309, '74568', '921960450089'),

(225, '1926 Gingoog Street', 'Sisilia', 511, '22824', '469738825391'),

(531, '1986 Sivas Place', 'Friuli-Venezia Giuli', 551, '95775', '182059202712'),

(56, '939 Probolinggo Loop', 'Galicia', 1, '4166', '680428310138'),

(298, '44 Najafabad Way', 'Baskimaa', 146, '61391', '96604821070'),

(399, '331 Bydgoszcz Parkway', 'Asturia', 181, '966', '537374465982'),

(474, '1469 Plock Lane', 'Galicia', 388, '95835', '622884741180'),

(555, '1764 Jalib al-Shuyukh Parkway', 'Galicia', 459, '77642', '84794532510'),

(89, '1557 Ktahya Boulevard', 'England', 88, '88002', '720998247660'),

(146, '483 Ljubertsy Parkway', 'Scotland', 149, '60562', '581174211853'),

(256, '1497 Yuzhou Drive', 'England', 312, '3433', '246810237916'),

(517, '548 Uruapan Street', 'Ontario', 312, '35653', '879347453467'),

(589, '1584 Ljubertsy Lane', 'England', 494, '22954', '285710089439'),

(20, '360 Toulouse Parkway', 'England', 495, '54308', '949312333307'),

(562, '869 Shikarpur Way', 'England', 496, '57380', '590764256785'),

(482, '808 Naala-Porto Parkway', 'England', 500, '41060', '553452430707'),

(502, '1515 Korla Way', 'England', 589, '57197', '959467760895');

INSERT INTO `category` (`category_id`, `name`) VALUES

(1, 'Action'),

(2, 'Animation'),

(3, 'Children'),

(4, 'Classics'),

(5, 'Comedy'),

(6, 'Documentary'),

(7, 'Drama'),

(8, 'Family'),

(9, 'Foreign'),

(10, 'Games'),

(11, 'Horror'),

(12, 'Music'),

(13, 'New'),

(14, 'Sci-Fi'),

(15, 'Sports'),

(16, 'Travel');

INSERT INTO `language` (language_id, name) VALUES

(1, 'English'),

(2, 'Italian'),

(3, 'French'),

(4, 'German');

INSERT INTO `user` (`user_id`, `first_name`, `last_name`, `email`, `address_id`, `active`, `create_date`) VALUES

(1, 'LUIS', 'YANEZ', 'LUIS.YANEZ@sakilacustomer.org', 407, 1, '2006-02-14 22:04:37'),

(2, 'LAUREN', 'HUDSON', 'LAUREN.HUDSON@sakilacustomer.org', 166, 1, '2006-02-14 22:04:36'),

(3, 'RITA', 'GRAHAM', 'RITA.GRAHAM@sakilacustomer.org', 108, 1, '2006-02-14 22:04:36'),

(4, 'VIRGINIA', 'GREEN', 'VIRGINIA.GREEN@sakilacustomer.org', 39, 1, '2006-02-14 22:04:36'),

(5, 'GRACE', 'ELLIS', 'GRACE.ELLIS@sakilacustomer.org', 118, 1, '2006-02-14 22:04:36'),

(6, 'MIGUEL', 'BETANCOURT', 'MIGUEL.BETANCOURT@sakilacustomer.org', 453, 1, '2006-02-14 22:04:37'),

(7, 'VICKIE', 'BREWER', 'VICKIE.BREWER@sakilacustomer.org', 255, 1, '2006-02-14 22:04:36'),

(8, 'ALMA', 'AUSTIN', 'ALMA.AUSTIN@sakilacustomer.org', 200, 1, '2006-02-14 22:04:36'),

(9, 'COLLEEN', 'BURTON', 'COLLEEN.BURTON@sakilacustomer.org', 231, 1, '2006-02-14 22:04:36'),

(10, 'VANESSA', 'SIMS', 'VANESSA.SIMS@sakilacustomer.org', 199, 1, '2006-02-14 22:04:36'),

(11, 'VICKI', 'FIELDS', 'VICKI.FIELDS@sakilacustomer.org', 205, 1, '2006-02-14 22:04:36'),

(12, 'LINDA', 'WILLIAMS', 'LINDA.WILLIAMS@sakilacustomer.org', 7, 1, '2006-02-14 22:04:36'),

(13, 'ENRIQUE', 'FORSYTHE', 'ENRIQUE.FORSYTHE@sakilacustomer.org', 602, 1, '2006-02-14 22:04:37'),

(14, 'ANNA', 'HILL', 'ANNA.HILL@sakilacustomer.org', 37, 1, '2006-02-14 22:04:36'),

(15, 'ALEXANDER', 'FENNELL', 'ALEXANDER.FENNELL@sakilacustomer.org', 444, 1, '2006-02-14 22:04:37'),

(16, 'CHRISTOPHER', 'GRECO', 'CHRISTOPHER.GRECO@sakilacustomer.org', 314, 1, '2006-02-14 22:04:37'),

(17, 'MARC', 'OUTLAW', 'MARC.OUTLAW@sakilacustomer.org', 504, 1, '2006-02-14 22:04:37'),

(18, 'DARREN', 'WINDHAM', 'DARREN.WINDHAM@sakilacustomer.org', 547, 1, '2006-02-14 22:04:37'),

(19, 'BESSIE', 'MORRISON', 'BESSIE.MORRISON@sakilacustomer.org', 225, 1, '2006-02-14 22:04:36'),

(20, 'ADRIAN', 'CLARY', 'ADRIAN.CLARY@sakilacustomer.org', 531, 1, '2006-02-14 22:04:37'),

(21, 'JULIE', 'SANCHEZ', 'JULIE.SANCHEZ@sakilacustomer.org', 56, 1, '2006-02-14 22:04:36'),

(22, 'MAE', 'FLETCHER', 'MAE.FLETCHER@sakilacustomer.org', 298, 1, '2006-02-14 22:04:37'),

(23, 'CHRIS', 'BROTHERS', 'CHRIS.BROTHERS@sakilacustomer.org', 399, 1, '2006-02-14 22:04:37'),

(24, 'WESLEY', 'BULL', 'WESLEY.BULL@sakilacustomer.org', 474, 1, '2006-02-14 22:04:37'),

(25, 'NELSON', 'CHRISTENSON', 'NELSON.CHRISTENSON@sakilacustomer.org', 555, 1, '2006-02-14 22:04:37'),

(26, 'ANNE', 'POWELL', 'ANNE.POWELL@sakilacustomer.org', 89, 1, '2006-02-14 22:04:36'),

(27, 'APRIL', 'BURNS', 'APRIL.BURNS@sakilacustomer.org', 146, 1, '2006-02-14 22:04:36'),

(28, 'MATTIE', 'HOFFMAN', 'MATTIE.HOFFMAN@sakilacustomer.org', 256, 1, '2006-02-14 22:04:36'),

(29, 'CECIL', 'VINES', 'CECIL.VINES@sakilacustomer.org', 517, 1, '2006-02-14 22:04:37'),

(30, 'MARSHALL', 'THORN', 'MARSHALL.THORN@sakilacustomer.org', 589, 1, '2006-02-14 22:04:37'),

(31, 'SANDRA', 'MARTIN', 'SANDRA.MARTIN@sakilacustomer.org', 20, 0, '2006-02-14 22:04:36'),

(32, 'ARMANDO', 'GRUBER', 'ARMANDO.GRUBER@sakilacustomer.org', 562, 1, '2006-02-14 22:04:37'),

(33, 'DAN', 'PAINE', 'DAN.PAINE@sakilacustomer.org', 482, 1, '2006-02-14 22:04:37'),

(34, 'GILBERT', 'SLEDGE', 'GILBERT.SLEDGE@sakilacustomer.org', 502, 1, '2006-02-14 22:04:37');

INSERT INTO `administrator` (`administrator_id`,`user_id`) VALUES

(1,1);

INSERT INTO `employee` (`employee_id`,`user_id`) VALUES

(1,2),

(2,3),

(3,4),

(4,5),

(5,6),

(6,7),

(7,8),

(8,9);

```sql
INSERT INTO `customer` (`customer_id`,`user_id`,`type` ) VALUES

(1, 10, 'OO'),

(2, 11, 'OO'),

(3, 12, 'OO'),

(4, 13, 'OO'),

(5, 14, 'OO'),

(6, 15, 'OO'),

(7, 16, 'OO'),

(8, 17, 'OO'),

(9, 18, 'OO'),

(10, 19, 'OO'),

(11, 20, 'OO'),

(12, 21, 'OO'),

(13, 22, 'OO'),

(14, 23, 'OO'),

(15, 24, 'OO'),

(16, 25, 'OO'),

(17, 26, 'OO'),

(18, 27, 'OO'),

(19, 28, 'OO'),

(20, 29, 'OO'),

(21, 30, 'OO'),

(22, 31, 'OO'),

(23, 32, 'OO'),

(24, 33, 'OO'),

(25, 34, 'OO');
```

```sql
INSERT INTO `inventory` (`inventory_id`,`title`,`active`,`type`) VALUES

(1,'SPEED SUIT',TRUE,'m'),

(2,'SAINTS BRIDE',TRUE,'m'),

(3,'LUCK OPUS',TRUE,'m'),

(4,'POSEIDON FOREVER',TRUE,'m'),

(5,'RIDGEMONT SUBMARINE',TRUE,'m'),

(6,'UNFORGIVEN ZOOLANDER',TRUE,'m'),

(7,'WAR NOTTING',TRUE,'m'),

(8,'BAREFOOT MANCHURIAN',TRUE,'m'),

(9,'SUGAR WONKA',TRUE,'m'),

(10,'TROUBLE DATE',TRUE,'m'),

(11,'LEBOWSKI SOLDIERS',TRUE,'m'),

(12,'EXCITEMENT EVE',TRUE,'m'),

(13,'NECKLACE OUTBREAK',TRUE,'m'),

(14,'WESTWARD SEABISCUIT',TRUE,'m'),

(15,'DADDY PITTSBURGH',TRUE,'m'),

(16,'HUNTER ALTER',TRUE,'m'),

(17,'SHAKESPEARE SADDLE',TRUE,'m'),

(18,'ENOUGH RAGING',TRUE,'m'),

(19,'BREAKING BAD S1E1',TRUE,'s'),

(20,'BREAKING BAD S1E2',TRUE,'s'),

(21,'BREAKING BAD S2E1',TRUE,'s'),

(22,'BREAKING BAD S2E2',TRUE,'s'),

(23,'BREAKING BAD S3E1',TRUE,'s'),

(24,'BREAKING BAD S3E2',TRUE,'s'),

(25,'BREAKING BAD S4E1',TRUE,'s'),

(26,'BREAKING BAD S4E2',TRUE,'s'),

(27,'BREAKING BAD S5E1',TRUE,'s'),
```

(28,'BREAKING BAD S5E2',TRUE,'s'),

(29,'SAUL FOODMAN S1E1',TRUE,'s'),

(30,'SAUL FOODMAN S1E2',TRUE,'s'),

(31,'SAUL FOODMAN S1E3',TRUE,'s'),

(32,'SAUL FOODMAN S2E1',TRUE,'s'),

(33,'SAUL FOODMAN S2E2',TRUE,'s'),

(34,'SAUL FOODMAN S2E3',TRUE,'s'),

(35,'SAUL FOODMAN S3E1',TRUE,'s'),

(36,'SAUL FOODMAN S3E2',TRUE,'s'),

(37,'SAUL FOODMAN S3E3',TRUE,'s'),

(38,'SAUL FOODMAN S4E1',TRUE,'s'),

(39,'SAUL FOODMAN S4E2',TRUE,'s'),

(40,'SAUL FOODMAN S4E3',TRUE,'s'),

(41,'GAME OF DRONES S1E1',TRUE,'s'),

(42,'GAME OF DRONES S1E2',TRUE,'s'),

(43,'GAME OF DRONES S1E3',TRUE,'s'),

(44,'TWIN BEAKS S1E1',TRUE,'s'),

(45,'TWIN BEAKS S1E2',TRUE,'s');

INSERT INTO `film` (`film_id`, `inventory_id`, `title`, `description`, `release_year`, `language_id`, `original_language_id`, `length`, `rating`, `special_features`) VALUES

(21, 1, 'SPEED SUIT', 'A Brilliant Display of a Frisbee And a Mad Scientist who must Succumb a Robot in Ancient China', 2006, 1, NULL, 124, 'PG-13', 'Commentaries,Behind the Scenes'),

(22, 2, 'SAINTS BRIDE', 'A Fateful Tale of a Technical Writer And a Composer who must Pursue a Explorer in The Gulf of Mexico', 2006, 2, NULL, 125, 'G', 'Deleted Scenes'),

(23, 3, 'LUCK OPUS', 'A Boring Display of a Moose And a Squirrel who must Outrace a Teacher in A Shark Tank', 2006, 1, NULL, 152, 'NC-17', 'Trailers,Commentaries,Behind the Scenes'),

(24, 4, 'POSEIDON FOREVER', 'A Thoughtful Epistle of a Womanizer And a Monkey who must Vanquish a Dentist in A Monastery', 2006, 4, NULL, 159, 'PG-13', 'Commentaries'),

(25, 5, 'RIDGEMONT SUBMARINE', 'A Unbelieveable Drama of a Waitress And a Composer who must Sink a Mad Cow in Ancient Japan', 2006, 1, 2, 46, 'PG-13', 'Commentaries,Deleted Scenes,Behind the Scenes'),

(26, 6, 'UNFORGIVEN ZOOLANDER', 'A Taut Epistle of a Monkey And a Sumo Wrestler who must Vanquish a A Shark in A Baloon Factory', 2006, 1, NULL, 129, 'PG', 'Trailers,Commentaries,Behind the Scenes'),

(27, 7, 'WAR NOTTING', 'A Boring Drama of a Teacher And a Sumo Wrestler who must Challenge a Secret Agent in The Canadian Rockies', 2006, 1, NULL, 80, 'G', 'Deleted Scenes,Behind the Scenes'),

(28, 8, 'BAREFOOT MANCHURIAN', 'A Intrepid Story of a Cat And a Student who must Vanquish a Girl in An Abandoned Amusement Park', 2006, 1, 3, 129, 'G', 'Trailers,Commentaries'),

(29, 9, 'SUGAR WONKA', 'A Touching Story of a Dentist And a Database Administrator who must Conquer a Astronaut in An Abandoned Amusement Park', 2006, 1, NULL, 114, 'PG', 'Trailers,Commentaries,Behind the Scenes'),

(30, 10, 'TROUBLE DATE', 'A Lacklusture Panorama of a Forensic Psychologist And a Woman who must Kill a Explorer in Ancient Japan', 2006, 1, NULL, 61, 'PG', 'Trailers,Commentaries,Behind the Scenes'),

(31, 11, 'LEBOWSKI SOLDIERS', 'A Beautiful Epistle of a Secret Agent And a Pioneer who must Chase a Astronaut in Ancient China', 2006, 1, NULL, 69, 'PG-13', 'Commentaries,Deleted Scenes'),

(32, 12, 'EXCITEMENT EVE', 'A Brilliant Documentary of a Monkey And a Car who must Conquer a Crocodile in A Shark Tank', 2006, 1, NULL, 51, 'G', 'Commentaries'),

(33, 13, 'NECKLACE OUTBREAK', 'A Astounding Epistle of a Database Administrator And a Mad Scientist who must Pursue a Cat in California', 2006, 4, NULL, 132, 'PG', 'Trailers,Commentaries,Behind the Scenes'),

(34, 14, 'WESTWARD SEABISCUIT', 'A Lacklusture Tale of a Butler And a Husband who must Face a Boy in Ancient China', 2006, 1, NULL, 52, 'NC-17', 'Commentaries,Deleted Scenes');

INSERT INTO `series` (`series_id`, `title`, `description`, `release_year`, `language_id`, `original_language_id`, `rating`, `special_features`, `number_of_seasons`, `number_of_episodes_per_season`) VALUES

(1,'BREAKING CHAD','drugs',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes', 5, 2),

(2,'SAUL FOODMAN','law',2021,1,NULL,'PG-13','Commentaries,Behind the Scenes', 4, 3),

(3,'GAME OF DRONES','bzzzzzzzzzzzzzzzzzzzz',2011,1,NULL,'PG-13','Commentaries,Behind the Scenes', 1, 3),

(4,'TWIN BEAKS','trrrr',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes', 1, 2);

INSERT INTO `season` (`season_id`,`series_id`, `title`, `description`, `release_year`, `language_id`, `original_language_id`, `rating`, `special_features`, `number_of_episodes`) VALUES

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(2,1,'BREAKING CHAD 2','drugs',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes',2),

(3,1,'BREAKING CHAD 3','drugs',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes',2),

(4,1,'BREAKING CHAD 4','drugs',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes',2),

(5,1,'BREAKING CHAD 5','drugs',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes',2),

(6,2,'SAUL FOODMAN 1','law',2021,1,NULL,'PG-13','Commentaries,Behind the Scenes',3),

(7,2,'SAUL FOODMAN 2','law',2021,1,NULL,'PG-13','Commentaries,Behind the Scenes',3),

(8,2,'SAUL FOODMAN 3','law',2021,1,NULL,'PG-13','Commentaries,Behind the Scenes',3),

(9,2,'SAUL FOODMAN 4','law',201,1,NULL,'PG-13','Commentaries,Behind the Scenes',3),

(10,3,'GAME OF DRONES','bzzzzzzzzzzzzzzzzzzz',2021,1,NULL,'PG-13','Commentaries,Behind the Scenes',3),

(11,4,'TWIN BEAKS','trrrr',201,1,NULL,'PG-13','Commentaries,Behind the Scenes',2);

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(2, 20, 1 , 'BREAKING CHAD S1E2', 'drugs',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes', 60),

(3, 21, 2 , 'BREAKING CHAD S2E1', 'drugs',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes', 60),

(4, 22, 2 , 'BREAKING CHAD S2E2', 'drugs',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes', 60),

(5, 23, 3 , 'BREAKING CHAD S3E1', 'drugs',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes', 60),

(6, 24, 3 , 'BREAKING CHAD S3E2', 'drugs',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes', 60),

(7, 25, 4 , 'BREAKING CHAD S4E1', 'drugs',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes', 60),

(8, 26, 4 , 'BREAKING CHAD S4E2', 'drugs',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes', 60),

(9, 27, 5 , 'BREAKING CHAD S5E1', 'drugs',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes', 60),

(10, 28, 5 , 'BREAKING CHAD S5E2', 'drugs',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes', 60),

(11, 29, 6 , 'SAUL FOODMAN S1E1', 'law',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes', 60),

(12, 30, 6 , 'SAUL FOODMAN S1E2', 'law',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes', 60),

(13, 31, 6 , 'SAUL FOODMAN S1E3', 'law',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes', 60),

(14, 32, 7 , 'SAUL FOODMAN S2E1', 'law',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes', 60),

(15, 33, 7 , 'SAUL FOODMAN S2E2', 'law',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes', 60),

(16, 34, 7 , 'SAUL FOODMAN S2E3', 'law',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes', 60),

(17, 35, 8 , 'SAUL FOODMAN S3E1', 'law',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes', 60),

(18, 36, 8 , 'SAUL FOODMAN S3E2', 'law',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes', 60),

(19, 37, 8 , 'SAUL FOODMAN S3E3', 'law',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes', 60),

(20, 38, 9 , 'SAUL FOODMAN S4E1', 'law',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes', 60),

(21, 39, 9 , 'SAUL FOODMAN S4E2', 'law',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes', 60),

(22, 40, 9 , 'SAUL FOODMAN S4E3', 'law',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes', 60),

(23, 41, 10 , 'GAME OF DRONES S1E1', 'bzzzzzzzzzzzzzzzzzzzz',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes', 60),

(24, 42, 10 , 'GAME OF DRONES S1E2', 'bzzzzzzzzzzzzzzzzzzzz',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes', 60),

(25, 43, 10 , 'GAME OF DRONES S1E3', 'bzzzzzzzzzzzzzzzzzzzz',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes', 60),

(26, 44, 11 , 'TWIN BEAKS S1E1', 'trrrr',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes', 60),

(27, 45, 11 , 'TWIN BEAKS S1E2', 'trrrr',2001,1,NULL,'PG-13','Commentaries,Behind the Scenes', 60);

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(3, 29),

(4, 31),

(7, 31),

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(7, 27),

(4, 26),

(8, 29),

(10, 24),

(9, 24),

(7, 22),

(3, 21),

(7, 28),

(1, 30),

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(23, 16),

(24, 16),

(24, 14),

(26, 6),

(29, 9),

(30, 14),

(26, 12),

(29, 5),

(27, 9),

(24, 1),

(26, 4),

(27, 14),

(25, 4),

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(10874, 22, 11920, '0.99', '2005-08-17 16:10:19','m'),

(4416, 16, 10093, '5.99', '2005-07-31 20:30:32','m'),

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(2816, 14, 11700, '2.99', '2005-08-17 07:12:31','m'),

(2823, 14, 15186, '0.99', '2005-08-22 15:52:57','m'),

(953, 25, 424, '6.99', '2005-05-27 15:34:01','m'),

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(3074, 13, 7462, '2.99', '2005-07-27 18:47:47','m'),

(3087, 14, 15528, '2.99', '2005-08-23 03:45:40','m'),

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(12088, 22, 1823, '7.99', '2005-06-16 21:48:16','m'),

(12095, 22, 4206, '2.99', '2005-07-07 11:32:16','m'),

(12100, 22, 6985, '4.99', '2005-07-27 00:57:42','m'),

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