

An online bidding platform destined for car model lovers, allowing them to sell or complete their private collections, by participating in real-time traditional auctions and interacting with other worldwide collectors.

The goal of this artefact is to describe and identify the main entities of the domain, as well as their relationships, attributes and constraints, using a UML class diagram.

```

classDiagram
    class Brand {
        +name: String
        Constraints
        {name != NULL}
        {name UNIQUE}
    }
    class Colour {
        +name: String
        Constraints
        {name != NULL}
        {name UNIQUE}
    }
    class Image {
        +image: Uri
        Constraints
        {image != NULL}
        {image UNIQUE}
    }
    class Auction {
        +title: String
        +startingPrice: Decimal
        +startDate: DateTime
        +finalDate: DateTime
        +suspend: Boolean
        +buyNow: Decimal
        +scaleType: Scale
        +description: String
        Constraints
        {title != NULL}
        {startingPrice != NULL}
        {startDate != NULL}
        {finalDate != NULL}
        {suspend != NULL}
        {scaleType != NULL}
        {suspend DEFAULT false}
        {startDate >= today}
        {startingPrice >= 1}
        {finalDate > startDate}
        {description != NULL}
    }
    class Notification {
        +viewed: Boolean
        +date: DateTime
        Constraints
        {viewed != NULL}
        {date != NULL}
        {viewed DEFAULT false}
        {date DEFAULT today}
    }
    class Comment {
        +text: String
        +date: DateTime
        Constraints
        {text != NULL}
        {date != NULL}
        {date DEFAULT today}
    }
    class Bid {
        +value: Decimal
        +date: DateTime
        Constraints
        {value != NULL}
        {date != NULL}
        {date DEFAULT today}
        {date <= today}
    }
    class Rating {
        +value: Integer
        +date: DateTime
        +comment: String
        Constraints
        {value != NULL}
        {date != NULL}
        {comment != NULL}
        {date <= today}
        {value >= 1}
        {value <= 5}
    }
    class Report {
        +reason: String
        +date: DateTime
        +stateType: State
        Constraints
        {reason != NULL}
        {date != NULL}
        {stateType != NULL}
        {date DEFAULT today}
        {stateType DEFAULT Waiting}
    }
    class Registered {
        +banned: Boolean
        /moneySpent: Decimal
        /moneyEarned: Decimal
        /numberBids: Integer
        /auctionsCreated: Integer
        /usersRated: Integer
        /auctionsWon: Integer
        /rating: Float
        /votes: Integer
        Constraints
        {banned != NULL}
        {banned DEFAULT false}
    }
    class Admin {
    }
    class User {
        +name: String
        +username: String
        +email: Email
        +password: String
        +image: Uri
        Constraints
        {name != NULL}
        {username != NULL}
        {username UNIQUE}
        {email != NULL}
        {email UNIQUE}
        {password != NULL}
        {image != NULL}
    }

    Brand "1" -- "*" Auction : contains
    Colour "1" -- "*" Auction : contains
    Image "1..*" -- "1" Auction : contains
    Auction "0..1" -- "1" Notification : Context
    Auction "0..1" -- "1" Comment : Context
    Auction "0..1" -- "1" Bid : Context
    Auction "0..1" -- "1" Rating : Context
    Auction "0..1" -- "1" Report : Location
    Auction "0..1" -- "1" Registered : Favourite Auction
    Auction "0..1" -- "1" User : Favourite Seller
    Notification "1" -- "1" User : Sender
    Notification "1" -- "1" User : Recipient
    Comment "1" -- "1" User : Sender
    Comment "1" -- "1" User : Recipient
    Bid "1" -- "1" User : Sender
    Bid "1" -- "1" User : Recipient
    Rating "1" -- "1" User : Sender
    Rating "1" -- "1" User : Recipient
    Report "1" -- "1" User : Reporter
    Registered "1" -- "1" User : Sender
    Registered "1" -- "1" User : Recipient
    Admin "1" -- "1" User : disjoint, complete
    
```

2. Additional Business Rules

- In a HelpMessage, the Sender must be of a different type of the Recipient.
- A new bid must have a greater value than the starting price of the auction.
- A new bid must have a greater value than the previous set bid.

- The seller cannot bid on his own auction.
- The registered user can only give a rating to an auction he won.
- Report only has one location.
- Notification only has one context.
- A user can only delete its account if there are no active auctions or bids.

A5: Relational Schema, validation and schema refinement

The following artefact has by objective mapping the Conceptual Data Model, obtaining the Relational Schema, which gives information about the primary keys, foreign keys and other integrity rules of the UML tables. The domain, functional dependencies and normalization of all relations schemas are also present, as well as the corresponding SQL code. Since every relation is in the Boyce–Codd Normal Form (BCNF), the relational schema is also in the BCNF, not being its normalization necessary.

1. Relational Schema

Relation reference	Relation Compact Notation
R01	"user"(<u>id</u> , name NN , username UK NN , email UK NN , password NN , image NN , banned NN DF False, admin NN DF False)
R02	favouriteSeller(<u>user1ID</u> -> "user", <u>user2ID</u> -> "user")
R03	favouriteAuction(<u>userID</u> -> "user", <u>auctionID</u> -> auction)
R04	helpMessage(<u>id</u> , text NN , dateHour NN DF Now CK dateHour <= Now, read NN DF False, senderID -> "user" NN , recipientID -> "user" NN)
R05	rating(<u>auctionID</u> -> auction, winnerID -> "user" NN , value NN CK value >= 1 AND value <= 5, dateHour NN DF Now CK dateHour <= Now, comment NN)
R06	report(<u>id</u> , reason NN , dateHour NN DF Now, reporterID -> "user" NN , locationAuctionID -> auction, locationCommentID -> comment, locationRegisteredID -> "user", stateType NN DF Waiting CK stateType IN State)
R07	auction(<u>id</u> , title NN , description NN , startingPrice NN CK startingPrice >= 1, startDate NN DF Now CK startDate >= Now, finalDate NN CK finalDate >= startDate, suspend DF NN False, buyNow IS NULL OR (buyNow IS NOT NULL AND buyNow > startingPrice), scaleType NN CK scaleType IN Scale, brandID -> brand NN , colourID -> colour NN , sellerID -> "user" NN)
R08	image(<u>id</u> , url NN UK , auctionID -> auction NN)
R09	colour(<u>id</u> , name NN UK)
R10	brand(<u>id</u> , name NN UK)
R11	bid(<u>id</u> , value NN , dateHour NN DF Now CK dateHour <= Now, authorID -> "user" NN , auctionID -> Auction NN)
R12	comment(<u>id</u> , text NN , dateHour NN DF Now CK dateHour <= Now, authorID -> "user" NN , auctionID -> Auction NN)

Relation reference	Relation Compact Notation
R13	notification(<u>id</u> , text NN , viewed NN DF False, dateHour NN DF Now CK dateHour <= Now, contextRating -> Auction, contextHelpMessage -> helpMessage, contextFavSeller -> Auction, contextBid -> Auction, contextFavAuction -> Auction, recipientID -> "user" NN)

2. Domains

Domain Name	Domain Specification
Now	DATETIME DEFAULT CURRENT_TIMESTAMP
Scale	ENUM ('1:8', '1:18', '1:43', '1:64')
State	ENUM ('Waiting', 'Discarded', 'Banned')

3. Schema validation

Table R01	"user"
Keys	{id, username, email}
Functional Dependencies	
FD01	{id} -> {name, username, email, password, image, banned, admin}
FD02	{username} -> {id, name, email, password, image, banned, admin}
FD03	{email} -> {id, name, username, password, image, banned, admin}
NORMAL FORM	BCNF

Table R02	favouriteSeller
Keys	{user1ID, user2ID}
Functional Dependencies	
	No non-trivial FDs
NORMAL FORM	BCNF

Table R03	favouriteAuction
Keys	{userID, auctionID}
Functional Dependencies	
	No non-trivial FDs
NORMAL FORM	BCNF

Table R04	helpMessage
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Table R04	helpMessage
Keys	{id}
Functional Dependencies	
FD51	{id} -> {text, date, read, senderID, recipientID}
NORMAL FORM	BCNF

Table R05	rating
Keys	{auctionID}
Functional Dependencies	
FD61	{auctionID} -> {winnerID, value, date, comment}
NORMAL FORM	BCNF

Table R06	report
Keys	{id}
Functional Dependencies	
FD71	{id} -> {reason, date, reporterID, locationAuctionID, locationCommentID, locationRegisteredID, stateType}
NORMAL FORM	BCNF

Table R07	auction
Keys	{id}
Functional Dependencies	
FD81	{id} -> {title, description, startingPrice, startDate, finalDate, suspend, buyNow, scaleType, brandID, colourID, sellerID}
NORMAL FORM	BCNF

Table R08	image
Keys	{id, url}
Functional Dependencies	
FD91	{id} -> {url, auctionID}
FD92	{url} -> {id, auctionID}
NORMAL FORM	BCNF

Table R09	colour
Keys	{id, name}
Functional Dependencies	
FD101	{id} -> {name}
FD102	{name} -> {id}
NORMAL FORM	BCNF

Table R10	brand
Keys	{id, name}
Functional Dependencies	
FD111	{id} -> {name}
FD112	{name} -> {id}
NORMAL FORM	BCNF

Table R11	bid
Keys	{id}
Functional Dependencies	
FD121	{id} -> {value, date, authorID, auctionID}
NORMAL FORM	BCNF

Table R12	comment
Keys	{id}
Functional Dependencies	
FD131	{id} -> {text, date, authorID, auctionID}
NORMAL FORM	BCNF

Table R13	notification
Keys	{id}
Functional Dependencies	
FD141	{id} -> {viewed, date, contextFavAuction, contextRating, contextHelpMessage, contextFavSeller, contextBid, recipientID}
NORMAL FORM	BCNF

A6: Indexes, triggers, user functions, transactions and population

This artefact contains the estimation of the tuples growth and magnitude, the identification of the most frequent queries, database modifications, the indexes to be applied in order to enhance the performance, and the indexes relative to the full-text search. It also enumerates the triggers and transactions needed to ensure consistency and integrity. Finally, there is the complete SQL code and the script to populate the database.

1. Database Workload

1.1. Estimate of tuples

Relation reference	Relation name	Order of magnitude	Estimated growth
R01	user	thousands	units per day
R02	favouriteSeller	thousands	units per week
R03	favouriteAuction	thousands	units per day
R04	helpMessage	hundreds	units per week
R05	rating	hundreds	units per day
R06	report	hundreds	units per month
R07	auction	hundreds	units per day
R08	image	thousands	dozens per day
R09	colour	dozens	units per year
R10	brand	dozens	units per year
R11	bid	thousands	dozens per day
R12	comment	tens of thousands	hundreds per day
R13	notification	tens of thousands	hundreds per day

1.2. Most frequent queries

Query reference	SELECT01
Query description	User's profile
Query frequency	hundreds per day

```
SELECT username, name, email, image, banned, admin,
       (SELECT AVG(value)
        FROM rating, auction
        WHERE auction.sellerID = $userID AND rating.auctionID = auction.id
       ) AS ratingValue
FROM "user"
WHERE "user".id = $userID;
```

Query reference SELECT02

Query description User's favourite sellers

Query frequency hundreds per day

```
SELECT username, image
FROM "user"
WHERE "user".id IN
    (SELECT user2ID
     FROM favouriteSeller
     WHERE favouriteSeller.user1ID = $userID);
```

Query reference SELECT03

Query description User's favourite auctions

Query frequency hundreds per day

```
SELECT title,
    (SELECT url
     FROM image
     WHERE image.auctionID = auction.id
     ORDER BY image.id ASC LIMIT 1) AS image,
    (SELECT value
     FROM bid
     WHERE auction.id = bid.auctionID
     ORDER BY bid.id DESC LIMIT 1 ) AS maxBid,
finalDate
FROM auction
WHERE auction.id IN
    (SELECT auctionID
     FROM favouriteAuction
     WHERE favouriteAuction.userID = $userID);
```

Query reference SELECT04

Query description Auction Info for Search

Query frequency tens of thousands per day

```
SELECT title, startDate, finalDate, buyNow,
    (SELECT MAX(value)
     FROM bid
     WHERE auction.id = bid.auctionID) AS maxBid,
    (SELECT url
     FROM image
```

```

WHERE image.auctionID = auction.id LIMIT 1) AS image,
(SELECT username
FROM "user"
WHERE "user".id = auction.sellerID) AS seller
FROM auction WHERE auction.suspend = False AND auction.finalDate > NOW()
ORDER BY auction.finalDate ASC LIMIT 20 OFFSET 0;

```

Query reference	SELECT05
-----------------	----------

Query description	Auction Info
-------------------	--------------

Query frequency	thousands per day
-----------------	-------------------

```

SELECT title, startDate, finalDate, suspend, buyNow,
  (SELECT name FROM colour WHERE colour.id = auction.colourID) AS colour,
  (SELECT name FROM brand WHERE brand.id = auction.brandID) AS brand,
  scaleType,
  username,
  image,
  (SELECT AVG(value)
   FROM rating, auction AS temp_auction
   WHERE temp_auction.sellerID = "user".id AND rating.auctionID =
temp_auction.id
  ) AS rating
FROM auction, "user"
WHERE auction.id = $auctionID AND "user".id = auction.sellerID;

SELECT url
FROM image
WHERE image.auctionID = $auctionID;

```

Query reference	SELECT06
-----------------	----------

Query description	Auction Bids
-------------------	--------------

Query frequency	thousands per day
-----------------	-------------------

```

-- IF User = seller
SELECT value, dateHour,
  (SELECT username
   FROM "user"
   WHERE "user".id = bid.authorID) AS author
FROM bid
WHERE bid.auctionID = $auctionID
ORDER BY value DESC;

-- ELSE
SELECT value, dateHour
FROM bid

```



```
WHERE bid.auctionID = $auctionID
ORDER BY value DESC;
```

Query reference	SELECT07
-----------------	----------

Query description	Auction Comments
-------------------	------------------

Query frequency	hundreds per day
-----------------	------------------

```
SELECT text, dateHour, (SELECT username FROM "user" WHERE "user".id =
comment.authorID) AS author
FROM comment
WHERE comment.auctionID = $auctionID
ORDER BY dateHour;
```

1.3. Most frequent modifications

Query reference	INSERT01
-----------------	----------

Query description	New user registered
-------------------	---------------------

Query frequency	units per day
-----------------	---------------

```
INSERT INTO "user" (name, username, email, password, img)
VALUES ($email, $name, $obs, $password, $img);
```

Query reference	INSERT02
-----------------	----------

Query description	New auction
-------------------	-------------

Query frequency	dozens per day
-----------------	----------------

```
INSERT INTO auction (title, startingPrice, startDate, finalDate, buyNow,
scaleType, brandID, colourID, sellerID, description)
VALUES ($title, $startingPrice, $startDate, $finalDate, $buyNow,
$scaleType, $brandID);
```

Query reference	INSERT03
-----------------	----------

Query description	New bid
-------------------	---------

Query frequency	hundreds per day
-----------------	------------------

```
INSERT INTO bid (value, dateHour, authorId, auctionId)
VALUES ($value, $dateHour, $authorId, $auctionId);
```

Query reference INSERT04

Query description	New comment
-------------------	-------------

Query frequency	hundreds per days
-----------------	-------------------

```
INSERT INTO comment (text, dateHour, authorID, auctionID)
VALUES ($value, $dateHour, $authorID, $auctionID);
```

Query reference INSERT05

Query description	New favourite seller
-------------------	----------------------

Query frequency	units per day
-----------------	---------------

```
INSERT INTO favouriteSeller (user1ID, user2ID)
VALUES ($user1ID, $user2ID);
```

Query reference INSERT06

Query description	New favourite auction
-------------------	-----------------------

Query frequency	units per day
-----------------	---------------

```
INSERT INTO favouriteAuction (userID, auctionID)
VALUES ($userID, $auctionID);
```

Query reference INSERT07

Query description	New image
-------------------	-----------

Query frequency	units per month
-----------------	-----------------

```
INSERT INTO image (url, auctionID)
VALUES ($url, $auctionID);
```

Query reference UPDATE01

Query description	Update User Info
-------------------	------------------

Query frequency	dozens per month
-----------------	------------------

```
UPDATE "user"  
SET name = $name, email = $email, image = $image, password = $password  
WHERE id = $userID;
```

Query reference	UPDATE02
-----------------	----------

Query description	Update User Info
-------------------	------------------

Query frequency	units per month
-----------------	-----------------

```
UPDATE "user"  
SET banned = $banned  
WHERE id = $userID;
```

Query reference	UPDATE03
-----------------	----------

Query description	User promotion to Admin
-------------------	-------------------------

Query frequency	units per year
-----------------	----------------

```
UPDATE "user"  
SET admin = $admin  
WHERE id = $userID;
```

Query reference	UPDATE04
-----------------	----------

Query description	Update Auction State
-------------------	----------------------

Query frequency	units per year
-----------------	----------------

```
UPDATE auction  
SET suspend = $suspend  
WHERE id = $auction;
```

Query reference	UPDATE05
-----------------	----------

Query description	Update HelpMessage State
-------------------	--------------------------

Query frequency	units per month
-----------------	-----------------

```
UPDATE helpMessage  
SET read = $read  
WHERE id = $messageID;
```

Query reference UPDATE06

Query description	Update Report State
-------------------	---------------------

Query frequency	units per month
-----------------	-----------------

```
UPDATE report
SET stateType = $stateType
WHERE id = $reportID;
```

Query reference UPDATE07

Query description	Update Notification State
-------------------	---------------------------

Query frequency	hundreds per day
-----------------	------------------

```
UPDATE notification
SET viewed = $viewed
WHERE id = $notificationID;
```

Query reference DELETE01

Query description	Delete "user"
-------------------	---------------

Query frequency	units per day
-----------------	---------------

```
DELETE FROM "user"
WHERE "user".id = $userID;
```

Query reference DELETE02

Query description	Delete comment
-------------------	----------------

Query frequency	units per day
-----------------	---------------

```
DELETE FROM comment
WHERE comment.id = $commentID;
```

Query reference DELETE03

Query description	Delete favorite auction
-------------------	-------------------------

Query frequency	dozens per day
-----------------	----------------

```
DELETE FROM favoriteAuction
WHERE favouriteSeller.user1ID = $user1ID AND favouriteSeller.user2ID =
$user2ID;
```

Query reference DELETE04

Query description Delete favorite seller

Query frequency dozens per day

```
DELETE FROM favouriteSeller
WHERE favouriteSeller.user1ID = $user1ID AND favouriteSeller.user2ID =
$user2ID;
```

2. Proposed Indexes

2.1. Performance indexes

Index reference	IDX01
Related queries	SELECT03, SELECT04, SELECT05
Index relation	auction
Index attribute	finalDate
Index type	B-tree
Cardinality	High
Clustering	No
Justification	These queries have to be fast, since they are executed many times every day. Its cardinality is high, because the finalDate values are very different, so query support is not needed. Therefore, there is no need for clustering.

```
CREATE INDEX auction_date ON auction USING btree (finalDate);
```

Index reference	IDX02
Related queries	SELECT04

Index reference	IDX02
Index relation	auction
Index attribute	buyNow
Index type	B-tree
Cardinality	High
Clustering	No
Justification	Since they are executed many times every day, these queries have to be fast. Its cardinality is high, because the buyNow values are very different, so query support is not needed. Therefore, there is no need for clustering.

```
CREATE INDEX auction_buyNow ON auction USING btree (buyNow);
```

Index reference	IDX03
Related queries	SELECT07
Index relation	comment
Index attribute	auctionID
Index type	Hash
Cardinality	High
Clustering	No
Justification	These queries have to be fast since they are executed many times every day. Its cardinality is high, because comments are very different. Therefore, there is no need for clustering.

```
CREATE INDEX comment_auction ON comment USING hash (auctionID);
```

Index reference	IDX04
Related queries	SELECT03, SELECT04 SELECT06

Index reference	IDX04
Index relation	bid
Index attribute	auctionID, value
Index type	B-tree
Cardinality	High
Clustering	No
Justification	These queries have to be fast since they are executed many times every day. Its cardinality is high, because bids are different. Therefore, there is no need for clustering.

```
CREATE INDEX bid_value ON bid USING btree (auctionID, value);
```

2.2. Full-text Search indexes

Index reference	IDX05
Related queries	SELECT07
Index relation	auction
Index attribute	search
Index type	GiST
Clustering	No
Justification	To improve the performance of full text searches while searching for auctions by their titles or descriptions; GiST will be used because it's better for dynamic data, and there is a high rate of auctions being created.

```
CREATE INDEX auction_search ON auction USING gist (search);
```

3. Triggers

Trigger	TRIGGER01
---------	-----------

Trigger	TRIGGER01
Description	A new bid must be higher than any other bids of the auction, higher than the starting price and the author of the bid must not be the auction seller

```

CREATE FUNCTION bid_rules() RETURNS TRIGGER AS
$BODY$
BEGIN
    IF EXISTS
        (SELECT *
         FROM bid
         WHERE NEW.auctionID = bid.auctionID AND bid.value >= NEW.value)
    THEN
        RAISE EXCEPTION 'A new bid must be higher than any other bids of the
auction.';
    END IF;
    IF EXISTS
        (SELECT *
         FROM (SELECT startingPrice
               FROM auction
               WHERE auction.id = NEW.auctionID) AS ST
         WHERE ST.startingPrice > NEW.value)
    THEN
        RAISE EXCEPTION 'A new bid must be higher than the starting price.';
    END IF;
    IF EXISTS
        (SELECT *
         FROM auction
         WHERE auction.id = NEW.auctionID AND auction.sellerID =
NEW.authorID)
    THEN
        RAISE EXCEPTION 'The author of a new bid must not be the auction
seller.';
    END IF;
    RETURN NEW;
END
$BODY$
LANGUAGE plpgsql;

CREATE TRIGGER bid_rules
BEFORE INSERT ON bid
FOR EACH ROW
EXECUTE PROCEDURE bid_rules();

```

Trigger	TRIGGER02
Description	In a HelpMessage, the Sender must be of a different type of the Recipient

```

CREATE FUNCTION help_message_types() RETURNS TRIGGER AS
$BODY$

```



```

BEGIN
    IF NEW.senderID = NEW.recipientID OR EXISTS
        (SELECT u1.admin , u2.admin
         FROM "user" AS u1, "user" AS u2
         WHERE u1.id = NEW.senderID AND u2.id = NEW.recipientID AND u1.admin
         = u2.admin)
    THEN
        RAISE EXCEPTION 'In a HelpMessage, the Sender must be of a different
type of the Recipient.';
    END IF;
    RETURN NEW;
END
$BODY$
LANGUAGE plpgsql;

CREATE TRIGGER help_message_types
    BEFORE INSERT ON helpMessage
    FOR EACH ROW
    EXECUTE PROCEDURE help_message_types();

```

Trigger **TRIGGER03**

Description The registered user can only give a rating to an auction he won

```

CREATE FUNCTION rating_rules() RETURNS TRIGGER AS
$BODY$
BEGIN
    IF EXISTS
        (SELECT finalDate FROM auction WHERE NEW.auctionID = auction.id AND
finalDate > NOW())
    THEN
        RAISE EXCEPTION 'The registered user can only give a rating to an
auction that has ended.';
    END IF;
    IF NOT EXISTS
        (SELECT T.authorID FROM (SELECT MAX(value) AS value, bid.auctionID,
bid.authorID
                                FROM bid
                                GROUP BY bid.authorID, bid.auctionID
                                HAVING bid.auctionID = NEW.auctionID
                                ORDER BY value DESC
                                LIMIT 1) AS T
        WHERE T.authorID = NEW.winnerID)
    THEN
        RAISE EXCEPTION 'The registered user can only give a rating to an
auction he won.';
    END IF;
    RETURN NEW;
END
$BODY$
LANGUAGE plpgsql;

```

```
CREATE TRIGGER rating_rules
  BEFORE INSERT ON rating
  FOR EACH ROW
  EXECUTE PROCEDURE rating_rules();
```

Trigger **TRIGGER04**

Description A user can only delete its account if there are no active auctions where he is the seller and if he's not the author of any highest bid

```
CREATE FUNCTION delete_rules() RETURNS TRIGGER AS
$BODY$
BEGIN
  IF EXISTS
    (SELECT auction.id FROM OLD, auction WHERE OLD.id =
    auction.sellerID AND finalDate > NOW())
  THEN
    RAISE EXCEPTION 'A user can only delete its account if there are no
    active auctions where he is the seller.';
  END IF;
  IF EXISTS
    (SELECT bid.id FROM OLD, bid, auction WHERE OLD.id = bid.authorID
    AND finalDate > NOW() AND auction.id = bid.auctionID)
  THEN
    RAISE EXCEPTION 'A user can only delete its account if he is not the
    author of any highest bid.';
  END IF;
  RETURN NEW;
END
$BODY$
LANGUAGE plpgsql;

CREATE TRIGGER delete_rules
  BEFORE INSERT ON "user"
  FOR EACH ROW
  EXECUTE PROCEDURE delete_rules();
```

Trigger **TRIGGER05**

Description When a rating is inserted, notify the user that have received the rating.

```
CREATE FUNCTION notify_rating() RETURNS TRIGGER AS
$BODY$
BEGIN
  INSERT INTO notification (recipientId, contextRating)
  VALUES (
    (SELECT sellerID FROM auction WHERE auction.id = NEW.auctionID),
    NEW.auctionID
```

```
);  
RETURN NEW;  
END  
$BODY$  
LANGUAGE 'plpgsql';  
  
CREATE TRIGGER notify_rating  
AFTER INSERT ON rating  
FOR EACH ROW  
EXECUTE PROCEDURE notify_rating();
```

Trigger **TRIGGER06**

Description When an help message is sent by an admin, notify the recipient.

```
CREATE FUNCTION notify_help_message() RETURNS TRIGGER AS  
$BODY$  
BEGIN  
    INSERT INTO notification (recipientId, contextHelpMessage)  
    VALUES (NEW.recipientID, NEW.id);  
    RETURN NEW;  
END  
$BODY$  
LANGUAGE 'plpgsql';  
  
CREATE TRIGGER notify_help_message  
AFTER INSERT ON helpMessage  
FOR EACH ROW  
EXECUTE PROCEDURE notify_help_message();
```

Trigger **TRIGGER07**

Description When an auction is inserted, notify users that have that seller as favorite.

```
CREATE FUNCTION notify_favorite_sellers() RETURNS TRIGGER AS  
$BODY$  
BEGIN  
    INSERT INTO notification (recipientId, contextFavSeller)  
    SELECT user1ID , NEW.id  
    FROM FavouriteSeller  
    WHERE FavouriteSeller.user2ID = NEW.sellerID;  
    RETURN NEW;  
END  
$BODY$  
LANGUAGE 'plpgsql';  
  
CREATE TRIGGER notify_favorite_sellers  
AFTER INSERT ON auction
```

```
FOR EACH ROW
EXECUTE PROCEDURE notify_favorite_sellers();
```

Trigger TRIGGER08

Description When a new highest bid is added, notify the last high bid maker that its bid was surpassed.

```
CREATE FUNCTION notify_highest_bid() RETURNS TRIGGER AS
$BODY$
BEGIN
    INSERT INTO notification (recipientId, contextBid)
    SELECT bid.authorID , bid.auctionID
        FROM bid
        WHERE bid.auctionID = NEW.auctionID AND bid.id != NEW.id
        ORDER BY bid.value DESC
        LIMIT 1;
    RETURN NEW;
END
$BODY$
LANGUAGE 'plpgsql';

CREATE TRIGGER notify_highest_bid
AFTER INSERT ON bid
FOR EACH ROW
EXECUTE PROCEDURE notify_highest_bid();
```

Trigger TRIGGER09

Description When an auction is inserted or updated, add a new column for tsvector values based on the title and description.

```
CREATE FUNCTION auction_search_update() RETURNS TRIGGER AS
$BODY$
BEGIN
    IF TG_OP = 'INSERT' THEN
        NEW.search = setweight(to_tsvector('english', NEW.title), 'A') ||
            setweight(to_tsvector('english', (SELECT name FROM colour WHERE
colour.id = NEW.colourID)), 'B') ||
            setweight(to_tsvector('simple', (SELECT name FROM brand WHERE
brand.id = NEW.brandID)), 'B') ||
            setweight(to_tsvector('simple', (SELECT username FROM "user"
WHERE "user".id = NEW.sellerID)), 'B') ||
            setweight(to_tsvector('english', NEW.description), 'C');
    END IF;
    IF TG_OP = 'UPDATE' THEN
        IF
            NEW.title <> OLD.title OR
            NEW.colourID <> OLD.colourID OR
            NEW.brandID <> OLD.brandID OR
```

```

        NEW.sellerID <> OLD.sellerID OR
        NEW.description <> OLD.description
    THEN
        NEW.search = setweight(to_tsvector('english', NEW.title), 'A')
    ||
        setweight(to_tsvector('english', (SELECT name FROM colour
WHERE colour.id = NEW.colourID)), 'B') ||
        setweight(to_tsvector('simple', (SELECT name FROM brand
WHERE brand.id = NEW.brandID)), 'B') ||
        setweight(to_tsvector('simple', (SELECT username FROM
"user" WHERE "user".id = NEW.sellerID)), 'B') ||
        setweight(to_tsvector('english', NEW.description), 'C');
    END IF;
END IF;
RETURN NEW;
END
$BODY$
LANGUAGE 'plpgsql';

CREATE TRIGGER fts_auction_insert
    BEFORE INSERT ON auction
    FOR EACH ROW
    EXECUTE PROCEDURE auction_search_update();

CREATE TRIGGER fts_auction_update
    BEFORE UPDATE ON auction
    FOR EACH ROW
    EXECUTE PROCEDURE auction_search_update();

```

4. Transactions

T01	Create a new Auction
Justification	<p>To maintain consistency, it's necessary to use a transaction to ensure that all the code executes without errors. If an error occurs, a ROLLBACK is issued (when the creation of an auction fails, per example). The isolation level is Repeatable Read, because, otherwise, an update of auction_id_seq could happen, due to an insert in the table auction committed by a concurrent transaction, and as a result, inconsistent data would be stored. Besides this, if only some of these insert operations were made, the other tables would be missing the new data.</p>
Isolation level	REPEATABLE READ

```

BEGIN TRANSACTION;
SET TRANSACTION ISOLATION LEVEL REPEATABLE READ

-- Insert auction
INSERT INTO auction (title, description, startingPrice, startDate,
finalDate, buyNow, scaleType, brandID, colourID, sellerID)

```

```
VALUES ($title, $description, $startingPrice, $startDate, $finalDate,
$buyNow, $scaleType, $brandID, $colourID, $sellerID);

-- Insert image
INSERT INTO image (url, auctionID)
VALUES ($url, currval('auction_id_seq'));

COMMIT;
```

Annex A. SQL Code

[database.sql](#) [population.sql](#)

A.1 Database schema

```
DROP TABLE IF EXISTS Rating CASCADE;
DROP TABLE IF EXISTS Report CASCADE;
DROP TABLE IF EXISTS Comment CASCADE;
DROP TABLE IF EXISTS Image CASCADE;
DROP TABLE IF EXISTS Auction CASCADE;
DROP TABLE IF EXISTS Brand CASCADE;
DROP TABLE IF EXISTS Colour CASCADE;
DROP TABLE IF EXISTS FavouriteSeller CASCADE;
DROP TABLE IF EXISTS FavouriteAuction CASCADE;
DROP TABLE IF EXISTS "user" CASCADE;
DROP TABLE IF EXISTS HelpMessage CASCADE;
DROP TABLE IF EXISTS Bid CASCADE;
DROP TABLE IF EXISTS Notification CASCADE;

DROP TYPE IF EXISTS Scale CASCADE;
DROP TYPE IF EXISTS State CASCADE;

DROP TRIGGER IF EXISTS bid_rules ON Bid;
DROP TRIGGER IF EXISTS help_message_types ON HelpMessage;
DROP TRIGGER IF EXISTS rating_rules ON Rating;
DROP TRIGGER IF EXISTS delete_rules ON "user";
DROP TRIGGER IF EXISTS notify_rating ON Rating;
DROP TRIGGER IF EXISTS notify_help_message ON HelpMessage;
DROP TRIGGER IF EXISTS notify_favorite_sellers ON Auction;
DROP TRIGGER IF EXISTS notify_highest_bid ON Bid;
DROP TRIGGER IF EXISTS fts_auction_insert ON Auction;
DROP TRIGGER IF EXISTS fts_auction_update ON Auction;

DROP FUNCTION IF EXISTS bid_rules() CASCADE;
DROP FUNCTION IF EXISTS help_message_types() CASCADE;
DROP FUNCTION IF EXISTS rating_rules() CASCADE;
DROP FUNCTION IF EXISTS delete_rules() CASCADE;
DROP FUNCTION IF EXISTS notify_rating() CASCADE;
DROP FUNCTION IF EXISTS notify_help_message() CASCADE;
DROP FUNCTION IF EXISTS notify_favorite_sellers() CASCADE;
DROP FUNCTION IF EXISTS notify_highest_bid() CASCADE;
```

```
DROP FUNCTION IF EXISTS auction_search_update() CASCADE;

CREATE TABLE "user" (
    id                SERIAL,
    name              VARCHAR(300) NOT NULL,
    username          VARCHAR(300) NOT NULL,
    email             VARCHAR(300) NOT NULL,
    password          VARCHAR(300) NOT NULL,
    image             VARCHAR(300) NOT NULL,
    banned            BOOLEAN DEFAULT FALSE NOT NULL,
    admin             BOOLEAN DEFAULT FALSE NOT NULL,

    CONSTRAINT UserPK PRIMARY KEY (id),
    CONSTRAINT UserUsernameUK UNIQUE (username),
    CONSTRAINT UserEmailUK UNIQUE (email)
);

CREATE TYPE Scale as ENUM (
    '1:8',
    '1:18',
    '1:43',
    '1:64'
);

CREATE TABLE Colour (
    id                SERIAL,
    name              VARCHAR(300) NOT NULL,

    CONSTRAINT ColourPK PRIMARY KEY (id),
    CONSTRAINT ColourNameUK UNIQUE (name)
);

CREATE TABLE Brand (
    id                SERIAL,
    name              VARCHAR(300) NOT NULL,

    CONSTRAINT BrandPK PRIMARY KEY (id),
    CONSTRAINT BrandNameUK UNIQUE (name)
);

CREATE TABLE Auction (
    id                SERIAL,
    title             VARCHAR(300) NOT NULL,
    description        VARCHAR(300) NOT NULL,
    startingPrice      DECIMAL NOT NULL,
    startDate          TIMESTAMP WITH TIME zone DEFAULT now() NOT
```

```

NULL,
    finalDate                TIMESTAMP WITH TIME zone NOT NULL,
    suspend                  BOOLEAN DEFAULT FALSE NOT NULL,
    buyNow                   DECIMAL,
    scaleType                Scale NOT NULL,
    brandID                  INTEGER NOT NULL,
    colourID                 INTEGER NOT NULL,
    sellerID                 INTEGER,
    search                   TSVECTOR,

    CONSTRAINT AuctionPK PRIMARY KEY (id),
    CONSTRAINT AuctionStartingPriceCK CHECK(startingPrice >= 1),
    -- CONSTRAINT AuctionStartDateCK CHECK(startDate >= now()),
    CONSTRAINT AuctionFinalDateCK CHECK(finalDate >= startDate),
    CONSTRAINT AuctionBuyNowCK CHECK (buyNow IS NULL or (buyNow IS NOT NULL
and buyNow > startingPrice)),
    CONSTRAINT AuctionBrandFK FOREIGN KEY (brandID) REFERENCES Brand ON
UPDATE CASCADE ON DELETE RESTRICT,
    CONSTRAINT AuctionColourFK FOREIGN KEY (colourID) REFERENCES Colour ON
UPDATE CASCADE ON DELETE RESTRICT,
    CONSTRAINT AuctionSellerFK FOREIGN KEY (sellerID) REFERENCES "user" ON
UPDATE CASCADE ON DELETE SET NULL
);

CREATE TABLE Image (
    id                        SERIAL,
    url                       VARCHAR(300) NOT NULL,
    auctionID                 INTEGER NOT NULL,

    CONSTRAINT ImagePK PRIMARY KEY (id),
    CONSTRAINT ImageUrlUK UNIQUE (url),
    CONSTRAINT ImageAuctionFK FOREIGN KEY (auctionID) REFERENCES Auction ON
UPDATE CASCADE ON DELETE CASCADE
);

CREATE TABLE FavouriteSeller (
    user1ID                   SERIAL,
    user2ID                   SERIAL,

    CONSTRAINT FavouriteSellerPK PRIMARY KEY (user1ID, user2ID),
    CONSTRAINT FavouriteSellerUser1FK FOREIGN KEY (user1ID) REFERENCES
"user" ON UPDATE CASCADE ON DELETE CASCADE,
    CONSTRAINT FavouriteSellerUser2FK FOREIGN KEY (user2ID) REFERENCES
"user" ON UPDATE CASCADE ON DELETE CASCADE
);

CREATE TABLE FavouriteAuction (
    userID                     SERIAL,
    auctionID                  SERIAL,

    CONSTRAINT FavouriteAuctionPK PRIMARY KEY (userID,auctionID),

```



```

        CONSTRAINT FavouriteAuctionUserFK FOREIGN KEY (userID) REFERENCES
"user" ON UPDATE CASCADE ON DELETE CASCADE,
        CONSTRAINT FavouriteAuctionAuctionFK FOREIGN KEY (auctionID) REFERENCES
Auction ON UPDATE CASCADE ON DELETE CASCADE
    );

CREATE TABLE HelpMessage (
    id SERIAL,
    text VARCHAR(300) NOT NULL,
    dateHour TIMESTAMP WITH TIME zone DEFAULT now() NOT
NULL,
    read BOOLEAN DEFAULT FALSE NOT NULL,
    senderID INTEGER,
    recipientID INTEGER,

    CONSTRAINT HelpMessagePK PRIMARY KEY (id),
    CONSTRAINT HelpMessageDateLT CHECK (dateHour <= now()),
    CONSTRAINT HelpMessageSenderFK FOREIGN KEY (senderID) REFERENCES "user"
ON UPDATE CASCADE ON DELETE SET NULL,
    CONSTRAINT HelpMessageRecipientFK FOREIGN KEY (recipientID) REFERENCES
"user" ON UPDATE CASCADE ON DELETE SET NULL
);

CREATE TABLE Rating (
    auctionID SERIAL,
    winnerID INTEGER,
    value INTEGER NOT NULL,
    dateHour TIMESTAMP WITH TIME zone DEFAULT now() NOT
NULL,
    comment VARCHAR(300) NOT NULL,

    CONSTRAINT RatingPK PRIMARY KEY (auctionID),
    CONSTRAINT RatingAuctionFK FOREIGN KEY (auctionID) REFERENCES Auction
ON UPDATE CASCADE ON DELETE CASCADE,
    CONSTRAINT RatingWinnerFK FOREIGN KEY (winnerID) REFERENCES "user" ON
UPDATE CASCADE ON DELETE SET NULL,
    CONSTRAINT RatingValueHT CHECK (value >= 1),
    CONSTRAINT RatingValueLT CHECK (value <= 5),
    CONSTRAINT RatingDateLT CHECK (dateHour <= now())
);

CREATE TYPE State as ENUM (
    'Waiting',
    'Discarded',
    'Banned'
);

CREATE TABLE Comment (
    id SERIAL,
    text VARCHAR(300) NOT NULL,

```

```

    dateHour                TIMESTAMP WITH TIME zone DEFAULT now() NOT
NULL,
    authorID                INTEGER NOT NULL,
    auctionID               INTEGER NOT NULL,

    CONSTRAINT CommentPK PRIMARY KEY (id),
    CONSTRAINT CommentDateLT CHECK (dateHour <= now()),
    CONSTRAINT CommentAuthorFK FOREIGN KEY (authorID) REFERENCES "user" ON
UPDATE CASCADE ON DELETE CASCADE,
    CONSTRAINT CommentAuctionFK FOREIGN KEY (auctionID) REFERENCES Auction
ON UPDATE CASCADE ON DELETE CASCADE
);

```

```

CREATE TABLE Report(
    id                      SERIAL,
    reason                  VARCHAR(300) NOT NULL,
    dateHour                TIMESTAMP WITH TIME zone DEFAULT now() NOT
NULL,
    reporterID              INTEGER,
    locationAuctionID        INTEGER DEFAULT NULL,
    locationCommentID        INTEGER DEFAULT NULL,
    locationRegisteredID     INTEGER DEFAULT NULL,
    stateType                State DEFAULT 'Waiting' NOT NULL,

    CONSTRAINT ReportPK PRIMARY KEY (id),
    CONSTRAINT ReportReporterFK FOREIGN KEY (reporterID) REFERENCES "user"
ON UPDATE CASCADE ON DELETE SET NULL,
    CONSTRAINT ReportExclusiveORLocation CHECK (
        1 = (
            CASE WHEN locationAuctionID IS NOT NULL THEN 1 ELSE 0 END +
            CASE WHEN locationCommentID IS NOT NULL THEN 1 ELSE 0 END +
            CASE WHEN locationRegisteredID IS NOT NULL THEN 1 ELSE 0 END
        )
    ),
    CONSTRAINT ReportLocationAuctionFK FOREIGN KEY (locationAuctionID)
REFERENCES Auction ON UPDATE CASCADE ON DELETE CASCADE,
    CONSTRAINT ReportLocationCommentFK FOREIGN KEY (locationCommentID)
REFERENCES Comment ON UPDATE CASCADE ON DELETE CASCADE,
    CONSTRAINT ReportLocationRegisteredFK FOREIGN KEY
(locationRegisteredID) REFERENCES "user" ON UPDATE CASCADE ON DELETE
CASCADE
);

```

```

CREATE TABLE Bid (
    id                      SERIAL,
    value                   DECIMAL NOT NULL,
    dateHour                TIMESTAMP WITH TIME zone DEFAULT now() NOT
NULL,
    authorID                INTEGER,
    auctionID               INTEGER NOT NULL,

    CONSTRAINT BidPK PRIMARY KEY (id),

```

```

        CONSTRAINT BidDateCK CHECK(dateHour <= now()),
        CONSTRAINT BidAuthorFK FOREIGN KEY (authorID) REFERENCES "user" ON
UPDATE CASCADE ON DELETE SET NULL,
        CONSTRAINT BidAuctionFK FOREIGN KEY (auctionID) REFERENCES Auction ON
UPDATE CASCADE ON DELETE RESTRICT
    );

CREATE TABLE Notification (
    id                      SERIAL,
    viewed                  BOOLEAN DEFAULT FALSE NOT NULL,
    dateHour                TIMESTAMP WITH TIME zone DEFAULT now() NOT
NULL,
    recipientID            INTEGER NOT NULL,
    contextRating           INTEGER DEFAULT NULL,
    contextHelpMessage     INTEGER DEFAULT NULL,
    contextFavSeller        INTEGER DEFAULT NULL,
    contextBid              INTEGER DEFAULT NULL,
    contextFavAuction       INTEGER DEFAULT NULL,

    CONSTRAINT NotificationPK PRIMARY KEY (id),
    CONSTRAINT NotificationDateLT CHECK (dateHour <= now()),
    CONSTRAINT NotificationExclusiveORContext CHECK (
        1 = (
            CASE WHEN contextRating IS NOT NULL THEN 1 ELSE 0 END +
            CASE WHEN contextHelpMessage IS NOT NULL THEN 1 ELSE 0 END +
            CASE WHEN contextFavSeller IS NOT NULL THEN 1 ELSE 0 END +
            CASE WHEN contextBid IS NOT NULL THEN 1 ELSE 0 END +
            CASE WHEN contextFavAuction IS NOT NULL THEN 1 ELSE 0 END
        )
    ),
    CONSTRAINT NotificationRecipientIDFK FOREIGN KEY (recipientID)
REFERENCES "user" ON UPDATE CASCADE ON DELETE CASCADE,
    CONSTRAINT NotificationContextRatingFK FOREIGN KEY (contextRating)
REFERENCES Auction ON UPDATE CASCADE ON DELETE CASCADE,
    CONSTRAINT NotificationContextHelpMessageFK FOREIGN KEY
(contextHelpMessage) REFERENCES HelpMessage ON UPDATE CASCADE ON DELETE
CASCADE,
    CONSTRAINT NotificationContextFavSellerFK FOREIGN KEY
(contextFavSeller) REFERENCES Auction ON UPDATE CASCADE ON DELETE CASCADE,
    CONSTRAINT NotificationContextBidFK FOREIGN KEY (contextBid) REFERENCES
Auction ON UPDATE CASCADE ON DELETE CASCADE,
    CONSTRAINT NotificationContextFavAuctionFK FOREIGN KEY
(contextFavAuction) REFERENCES Auction ON UPDATE CASCADE ON DELETE CASCADE
    );

-----INDEXES-----

CREATE INDEX auction_date ON auction USING btree (finalDate);

CREATE INDEX auction_buyNow ON auction USING btree (buyNow);

```

```

CREATE INDEX comment_auction ON comment USING hash (auctionID);

CREATE INDEX bid_value ON bid USING btree (auctionID, value);

CREATE INDEX auction_search ON auction USING gist (search);

-----FUNCTIONS-----

CREATE FUNCTION bid_rules() RETURNS TRIGGER AS
$BODY$
BEGIN
    IF EXISTS
        (SELECT *
         FROM bid
         WHERE NEW.auctionID = bid.auctionID AND bid.value >= NEW.value)
    THEN
        RAISE EXCEPTION 'A new bid must be higher than any other bids of the
auction.';
    END IF;
    IF EXISTS
        (SELECT *
         FROM (SELECT startingPrice
               FROM auction
               WHERE auction.id = NEW.auctionID) AS ST
         WHERE ST.startingPrice > NEW.value)
    THEN
        RAISE EXCEPTION 'A new bid must be higher than the starting price.';
    END IF;
    IF EXISTS
        (SELECT *
         FROM auction
         WHERE auction.id = NEW.auctionID AND auction.sellerID =
NEW.authorID)
    THEN
        RAISE EXCEPTION 'The author of a new bid must not be the auction
seller.';
    END IF;
    RETURN NEW;
END
$BODY$
LANGUAGE plpgsql;

CREATE FUNCTION help_message_types() RETURNS TRIGGER AS
$BODY$
BEGIN
    IF NEW.senderID = NEW.recipientID OR EXISTS
        (SELECT u1.admin , u2.admin
         FROM "user" AS u1, "user" AS u2
         WHERE u1.id = NEW.senderID AND u2.id = NEW.recipientID AND u1.admin
= u2.admin)
    THEN

```

```

        RAISE EXCEPTION 'In a HelpMessage, the Sender must be of a different
type of the Recipient.';
    END IF;
    RETURN NEW;
END
$BODY$
LANGUAGE plpgsql;

CREATE FUNCTION rating_rules() RETURNS TRIGGER AS
$BODY$
BEGIN
    IF EXISTS
        (SELECT finalDate FROM auction WHERE NEW.auctionID = auction.id AND
finalDate > NOW())
    THEN
        RAISE EXCEPTION 'The registered user can only give a rating to an
auction that has ended.';
    END IF;
    IF NOT EXISTS
        (SELECT T.authorID FROM (SELECT MAX(value) AS value, bid.auctionID,
bid.authorID
                                FROM bid
                                GROUP BY bid.authorID, bid.auctionID
                                HAVING bid.auctionID = NEW.auctionID
                                ORDER BY value DESC
                                LIMIT 1) AS T
        WHERE T.authorID = NEW.winnerID)
    THEN
        RAISE EXCEPTION 'The registered user can only give a rating to an
auction he won.';
    END IF;
    RETURN NEW;
END
$BODY$
LANGUAGE plpgsql;

CREATE FUNCTION delete_rules() RETURNS TRIGGER AS
$BODY$
BEGIN
    IF EXISTS
        (SELECT auction.id FROM OLD, auction WHERE OLD.id =
auction.sellerID AND finalDate > NOW())
    THEN
        RAISE EXCEPTION 'A user can only delete its account if there are no
active auctions where he is the seller.';
    END IF;
    IF EXISTS
        (SELECT bid.id FROM OLD, bid, auction WHERE OLD.id = bid.authorID
AND finalDate > NOW() AND auction.id = bid.auctionID)
    THEN
        RAISE EXCEPTION 'A user can only delete its account if he is not the
author of any highest bid.';

```

```
        END IF;
        RETURN NEW;
    END
$BODY$
LANGUAGE plpgsql;

CREATE FUNCTION notify_rating() RETURNS TRIGGER AS
$BODY$
BEGIN
    INSERT INTO notification (recipientId, contextRating)
    VALUES (
        (SELECT sellerID FROM auction WHERE auction.id = NEW.auctionID),
        NEW.auctionID
    );
    RETURN NEW;
END
$BODY$
LANGUAGE 'plpgsql';

CREATE FUNCTION notify_help_message() RETURNS TRIGGER AS
$BODY$
BEGIN
    INSERT INTO notification (recipientId, contextHelpMessage)
    VALUES (NEW.recipientID, NEW.id);
    RETURN NEW;
END
$BODY$
LANGUAGE 'plpgsql';

CREATE FUNCTION notify_favorite_sellers() RETURNS TRIGGER AS
$BODY$
BEGIN
    INSERT INTO notification (recipientId, contextFavSeller)
    SELECT user1ID , NEW.id
        FROM FavouriteSeller
        WHERE FavouriteSeller.user2ID = NEW.sellerID;
    RETURN NEW;
END
$BODY$
LANGUAGE 'plpgsql';

CREATE FUNCTION notify_highest_bid() RETURNS TRIGGER AS
$BODY$
BEGIN
    INSERT INTO notification (recipientId, contextBid)
    SELECT bid.authorID , bid.auctionID
        FROM bid
        WHERE bid.auctionID = NEW.auctionID AND bid.id != NEW.id
        ORDER BY bid.value DESC
        LIMIT 1;
END
```

```

        RETURN NEW;
    END
$BODY$
LANGUAGE 'plpgsql';

CREATE FUNCTION auction_search_update() RETURNS TRIGGER AS
$BODY$
BEGIN
    IF TG_OP = 'INSERT' THEN
        NEW.search = setweight(to_tsvector('english', NEW.title), 'A') ||
            setweight(to_tsvector('english', (SELECT name FROM colour WHERE
colour.id = NEW.colourID)), 'B') ||
            setweight(to_tsvector('simple', (SELECT name FROM brand WHERE
brand.id = NEW.brandID)), 'B') ||
            setweight(to_tsvector('simple', (SELECT username FROM "user"
WHERE "user".id = NEW.sellerID)), 'B') ||
            setweight(to_tsvector('english', NEW.description), 'C');
    END IF;
    IF TG_OP = 'UPDATE' THEN
        IF
            NEW.title <> OLD.title OR
            NEW.colourID <> OLD.colourID OR
            NEW.brandID <> OLD.brandID OR
            NEW.sellerID <> OLD.sellerID OR
            NEW.description <> OLD.description
        THEN
            NEW.search = setweight(to_tsvector('english', NEW.title), 'A')
||
                setweight(to_tsvector('english', (SELECT name FROM colour
WHERE colour.id = NEW.colourID)), 'B') ||
                setweight(to_tsvector('simple', (SELECT name FROM brand
WHERE brand.id = NEW.brandID)), 'B') ||
                setweight(to_tsvector('simple', (SELECT username FROM
"user" WHERE "user".id = NEW.sellerID)), 'B') ||
                setweight(to_tsvector('english', NEW.description), 'C');
        END IF;
    END IF;
    RETURN NEW;
END
$BODY$
LANGUAGE 'plpgsql';

```

-----TRIGGERS-----

```

CREATE TRIGGER bid_rules
    BEFORE INSERT ON bid
    FOR EACH ROW
    EXECUTE PROCEDURE bid_rules();

```

```
CREATE TRIGGER help_message_types
  BEFORE INSERT ON helpMessage
  FOR EACH ROW
  EXECUTE PROCEDURE help_message_types();

CREATE TRIGGER rating_rules
  BEFORE INSERT ON rating
  FOR EACH ROW
  EXECUTE PROCEDURE rating_rules();

CREATE TRIGGER delete_rules
  BEFORE DELETE ON "user"
  FOR EACH ROW
  EXECUTE PROCEDURE delete_rules();

CREATE TRIGGER notify_rating
  AFTER INSERT ON rating
  FOR EACH ROW
  EXECUTE PROCEDURE notify_rating();

CREATE TRIGGER notify_help_message
  AFTER INSERT ON helpMessage
  FOR EACH ROW
  EXECUTE PROCEDURE notify_help_message();

CREATE TRIGGER notify_favorite_sellers
  AFTER INSERT ON auction
  FOR EACH ROW
  EXECUTE PROCEDURE notify_favorite_sellers();

CREATE TRIGGER notify_highest_bid
  AFTER INSERT ON bid
  FOR EACH ROW
  EXECUTE PROCEDURE notify_highest_bid();

CREATE TRIGGER fts_auction_insert
  BEFORE INSERT ON auction
  FOR EACH ROW
  EXECUTE PROCEDURE auction_search_update();

CREATE TRIGGER fts_auction_update
  BEFORE UPDATE ON auction
  FOR EACH ROW
  EXECUTE PROCEDURE auction_search_update();
```


A.2 Database population

```
INSERT INTO "user" (id, name, username, email, password, image, banned,
admin) VALUES (1, 'Ainsley Flowerden', 'aflowerden0',
'aflowerden0@posterous.com', 'kNmDqPrWt',
'http://dummyimage.com/135x100.png/ddddd/000000', false, true);
INSERT INTO "user" (id, name, username, email, password, image, banned,
admin) VALUES (2, 'Nappy Berrisford', 'nberrisford1',
'nberrisford1@netscape.com', '7C2oJYrT5Yfw',
'http://dummyimage.com/204x100.png/cc0000/ffffff', false, true);
INSERT INTO "user" (id, name, username, email, password, image, banned,
admin) VALUES (3, 'Giraud McFadin', 'gmcfadin2',
'gmcfadin2@washington.edu', 'V504sbDVNq',
'http://dummyimage.com/117x100.png/ff4444/ffffff', false, true);
INSERT INTO "user" (id, name, username, email, password, image, banned,
admin) VALUES (4, 'Xerxes Faber', 'xfaber3', 'xfaber3@cocolog-nifty.com',
'1Csqw0Cpw', 'http://dummyimage.com/202x100.png/5fa2dd/ffffff', false,
true);
INSERT INTO "user" (id, name, username, email, password, image, banned,
admin) VALUES (5, 'Nealy Clousley', 'nclousley4', 'nclousley4@merriam-
webster.com', 'q5R2qPFRaptA',
'http://dummyimage.com/221x100.png/5fa2dd/ffffff', false, true);
INSERT INTO "user" (id, name, username, email, password, image, banned,
admin) VALUES (6, 'Lise Castro', 'lcastro5', 'lcastro5@w3.org',
'W5ziIyZ123fy', 'http://dummyimage.com/217x100.png/ff4444/ffffff', false,
true);
INSERT INTO "user" (id, name, username, email, password, image, banned,
admin) VALUES (7, 'Arlene Carlos', 'acarlos6', 'acarlos6@prlog.org',
'Eze1Em', 'http://dummyimage.com/116x100.png/5fa2dd/ffffff', false, true);
INSERT INTO "user" (id, name, username, email, password, image, banned,
admin) VALUES (8, 'Stanislaus Monget', 'smonget7',
'smonget7@cafepress.com', 'G19c7k',
'http://dummyimage.com/195x100.png/ddddd/000000', false, true);
INSERT INTO "user" (id, name, username, email, password, image, banned,
admin) VALUES (9, 'Jerrold Ausher', 'jausher8', 'jausher8@storify.com',
'uTlh8Kb', 'http://dummyimage.com/181x100.png/ff4444/ffffff', false, true);
INSERT INTO "user" (id, name, username, email, password, image, banned,
admin) VALUES (10, 'Giavani Gallon', 'ggallon9', 'ggallon9@europa.eu',
'8FjJKA2aP', 'http://dummyimage.com/187x100.png/5fa2dd/ffffff', false,
true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (11, 'Augustine Huffadine', 'ahuffadine0', 'ahuffadine0@ihg.com',
'8aXA2Ie5gF', 'http://dummyimage.com/142x100.png/ff4444/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (12, 'Merwin Taffrey', 'mtaffrey1', 'mtaffrey1@pbs.org',
'wdalkFUejY3r', 'http://dummyimage.com/194x100.png/cc0000/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (13, 'Tabitha Ryce', 'tryce2', 'tryce2@cargocollective.com',
'J3boab', 'http://dummyimage.com/234x100.png/cc0000/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (14, 'Caitrin Starie', 'cstarie3', 'cstarie3@miibeian.gov.cn',
'YIjXDNh9nYz', 'http://dummyimage.com/241x100.png/5fa2dd/ffffff', true);
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INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (15, 'Costanza Jekyll', 'cjekyll4', 'cjekyll4@smugmug.com',
'8R00R1fsa', 'http://dummyimage.com/247x100.png/5fa2dd/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (16, 'Robbert Dionsetti', 'rdionsetti5',
'rdionsetti5@ycombinator.com', 'j5iwttp',
'http://dummyimage.com/226x100.png/cc0000/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (17, 'Dar Earie', 'dearie6', 'dearie6@php.net', 'iS1dLchGk7A',
'http://dummyimage.com/127x100.png/5fa2dd/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (18, 'Renata Treversh', 'rtreversh7', 'rtreversh7@miibeian.gov.cn',
'lzyXdkzFD0n', 'http://dummyimage.com/147x100.png/cc0000/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (19, 'Mikkel Sherrum', 'msherrum8', 'msherrum8@vistaprint.com',
'xTFKLTRtnwba', 'http://dummyimage.com/119x100.png/5fa2dd/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (20, 'Robers Charville', 'rcharville9', 'rcharville9@google.fr',
'E9tRS6q', 'http://dummyimage.com/215x100.png/5fa2dd/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (21, 'Twila Waliszewski', 'twaliszewskia',
'twaliszewskia@uol.com.br', 'GR5otZw9E5en',
'http://dummyimage.com/133x100.png/5fa2dd/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (22, 'Karena Bryenton', 'kbryentonb', 'kbryentonb@ucsd.edu',
'40Zi9w8i', 'http://dummyimage.com/120x100.png/dddddd/000000', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (23, 'Sheelagh Cripps', 'scrippsc', 'scrippsc@hubpages.com',
'sRLT8cUIfg', 'http://dummyimage.com/141x100.png/ff4444/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (24, 'Floris Braune', 'fbrauned', 'fbrauned@cam.ac.uk', 'cNCmpg1bL',
'http://dummyimage.com/229x100.png/5fa2dd/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (25, 'Teddi Pittem', 'tpitteme', 'tpitteme@shareasale.com',
'aPJgodP', 'http://dummyimage.com/212x100.png/cc0000/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (26, 'Micheline Chancelier', 'mchancelierf',
'mchancelierf@reuters.com', 'T3CeWeT',
'http://dummyimage.com/225x100.png/dddddd/000000', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (27, 'Ellery Sibery', 'esiberyg', 'esiberyg@netlog.com', 'ELDgIu',
'http://dummyimage.com/205x100.png/ff4444/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (28, 'Tamma Courcey', 'tcourceyh', 'tcourceyh@uol.com.br',
'9k14ATkyAoH', 'http://dummyimage.com/194x100.png/5fa2dd/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (29, 'Electra Barbosa', 'ebarbosai', 'ebarbosai@ezinearticles.com',
'CpCkNFh0', 'http://dummyimage.com/148x100.png/cc0000/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (30, 'Ferris Knee', 'fkneej', 'fkneej@diigo.com', 'I5Qyy6Sz7054',
'http://dummyimage.com/126x100.png/cc0000/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (31, 'Rad Keems', 'rkeemsk', 'rkeemsk@ihg.com', 'ma1Nxmknw',
'http://dummyimage.com/196x100.png/ff4444/ffffff', true);
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INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (32, 'Ella Thoresby', 'ethoresbyl',
'ethoresbyl@acquirethisname.com', 'GBvUsKlTR2s',
'http://dummyimage.com/157x100.png/ff4444/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (33, 'Odo Sowray', 'osowraym', 'osowraym@go.com', 'VQAcuMPxW2w',
'http://dummyimage.com/228x100.png/ff4444/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (34, 'Freemon Von Brook', 'fvonn', 'fvonn@clickbank.net',
'ODGvTsYs', 'http://dummyimage.com/153x100.png/5fa2dd/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (35, 'Dill Ashbee', 'dashbeeo', 'dashbeeo@free.fr', 'dVsjnftaFU',
'http://dummyimage.com/219x100.png/5fa2dd/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (36, 'Sherrie Foulger', 'sfoulgerp', 'sfoulgerp@amazon.co.uk',
'dNoK9SmA', 'http://dummyimage.com/133x100.png/ff4444/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (37, 'Tracy Clear', 'tclearq', 'tclearq@livejournal.com', '0LJzXP',
'http://dummyimage.com/161x100.png/dddddd/000000', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (38, 'Salomone Pollastrino', 'spollastrinor',
'spollastrinor@pen.io', 'FnYUdJpw',
'http://dummyimage.com/185x100.png/5fa2dd/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (39, 'Laney Kynaston', 'lkynastons', 'lkynastons@mtv.com',
'KfAyaMCT2q1q', 'http://dummyimage.com/243x100.png/dddddd/000000', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (40, 'Timotheus Tal', 'ttalt', 'ttalt@icq.com', 'L0xNnW25CD',
'http://dummyimage.com/116x100.png/dddddd/000000', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (41, 'Chic Heakey', 'cheakeyu', 'cheakeyu@drupal.org', 'KIvH34a',
'http://dummyimage.com/104x100.png/5fa2dd/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (42, 'Grantley McKeurtan', 'gmckeurtanv',
'gmckeurtanv@istockphoto.com', 'MYF4teKx1Dl',
'http://dummyimage.com/148x100.png/dddddd/000000', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (43, 'Kipp Arnot', 'karnotw', 'karnotw@nyu.edu', 'nJvngMy',
'http://dummyimage.com/208x100.png/5fa2dd/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (44, 'Maximilian Duly', 'mdulyx', 'mdulyx@newsvine.com', 'W5nF1Y',
'http://dummyimage.com/158x100.png/5fa2dd/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (45, 'Antoni Sollars', 'asollarsy', 'asollarsy@blogtalkradio.com',
'js0qeM7o5G0Y', 'http://dummyimage.com/208x100.png/ff4444/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (46, 'Maddalena MacElholm', 'mmacelholmz',
'mmacelholmz@creativecommons.org', 'T2nf09nVtGs',
'http://dummyimage.com/174x100.png/5fa2dd/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (47, 'Peyter Knowlden', 'pknowlden10', 'pknowlden10@nhs.uk',
'7RpR5rZ1zv', 'http://dummyimage.com/221x100.png/cc0000/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (48, 'Aldin Gerrels', 'agerrels11', 'agerrels11@huffingtonpost.com',
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'1CyBvZHoq', 'http://dummyimage.com/194x100.png/ff4444/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (49, 'Janeta Mathivet', 'jmathivet12', 'jmathivet12@com.com',
'5J6vD75t', 'http://dummyimage.com/124x100.png/dddddd/000000', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (50, 'Baillie Inchbald', 'binchbald13', 'binchbald13@tmall.com',
'wsN8KkAR8pd', 'http://dummyimage.com/246x100.png/dddddd/000000', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (51, 'Donaugh Shier', 'dshier14', 'dshier14@blinklist.com',
'U04zK28QFhf', 'http://dummyimage.com/245x100.png/5fa2dd/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (52, 'Trevor McGirl', 'tmcgirl15', 'tmcgirl15@booking.com',
'SaRCaMQ', 'http://dummyimage.com/177x100.png/dddddd/000000', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (53, 'Boonie McPaike', 'bmcpaike16', 'bmcpaike16@mail.ru',
'g8fCMWbb7q1K', 'http://dummyimage.com/243x100.png/ff4444/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (54, 'Marwin Bilovus', 'mbilovus17', 'mbilovus17@360.cn', 'lhqL5oW',
'http://dummyimage.com/225x100.png/ff4444/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (55, 'West Hawke', 'whawke18', 'whawke18@angelfire.com',
'pCO3Wm8E', 'http://dummyimage.com/133x100.png/5fa2dd/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (56, 'Cory Paschke', 'cpaschke19', 'cpaschke19@ocn.ne.jp',
'LMWvIxZ9', 'http://dummyimage.com/150x100.png/cc0000/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (57, 'Ted Nickell', 'tnickell1a', 'tnickell1a@google.it',
'eM2ujUyD6', 'http://dummyimage.com/122x100.png/dddddd/000000', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (58, 'Martguerita Ealam', 'mealam1b', 'mealam1b@dion.ne.jp',
'H9Q0qOtGiZg', 'http://dummyimage.com/164x100.png/cc0000/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (59, 'Gweni Pybworth', 'gpybworth1c', 'gpybworth1c@about.me',
'hfSFbpzyU5', 'http://dummyimage.com/241x100.png/5fa2dd/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (60, 'Bronson Dunbobin', 'bdunbobin1d', 'bdunbobin1d@who.int',
'Z4KaPVUXqN1c', 'http://dummyimage.com/233x100.png/cc0000/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (61, 'Algernon Laffling', 'alaffling1e', 'alaffling1e@springer.com',
'4iMkERX', 'http://dummyimage.com/102x100.png/ff4444/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (62, 'Obed Matzl', 'omatzl1f', 'omatzl1f@squidoo.com', 'eKnBmEaOXi',
'http://dummyimage.com/124x100.png/ff4444/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (63, 'Karylin Georgeou', 'kgeorgeou1g', 'kgeorgeou1g@cnet.com',
'ylVkBvgWGStl', 'http://dummyimage.com/231x100.png/cc0000/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (64, 'Barron Ritchings', 'britchings1h', 'britchings1h@51.la',
'la8Urn', 'http://dummyimage.com/235x100.png/cc0000/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (65, 'Derek Sargeant', 'dsargeant1i', 'dsargeant1i@shop-pro.jp',
'9ejofng', 'http://dummyimage.com/179x100.png/5fa2dd/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (66, 'Garik Maylour', 'gmaylour1j', 'gmaylour1j@odnoklassniki.ru',
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'Pwj2Wk', 'http://dummyimage.com/154x100.png/5fa2dd/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (67, 'Joni Pedrick', 'jpedrick1k', 'jpedrick1k@storify.com',
'HtEPv8iK', 'http://dummyimage.com/229x100.png/ff4444/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (68, 'Rosalyn Sheber', 'rsheber1l', 'rsheber1l@google.co.jp',
'mSzfwvUBgb', 'http://dummyimage.com/188x100.png/dddddd/000000', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (69, 'Nehemiah Forrington', 'nforrington1m',
'nforrington1m@deviantart.com', 'dpqoYC8kFPR',
'http://dummyimage.com/236x100.png/5fa2dd/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (70, 'Halie Junes', 'hjunes1n', 'hjunes1n@utexas.edu', 'IzOHq4ruW5',
'http://dummyimage.com/170x100.png/ff4444/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (71, 'Denney Snarie', 'dsnarie1o', 'dsnarie1o@google.cn',
'es3nyuFB', 'http://dummyimage.com/150x100.png/ff4444/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (72, 'Eugenia Crosham', 'ecrosham1p', 'ecrosham1p@paginiegialle.it',
'2zaygB1xtcJ', 'http://dummyimage.com/238x100.png/dddddd/000000', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (73, 'Mitchell Crutch', 'mcrutch1q',
'mcrutch1q@businessinsider.com', 'YjyuVFlHpY',
'http://dummyimage.com/137x100.png/ff4444/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (74, 'Marcelia Allaway', 'mallaway1r', 'mallaway1r@xinhuanet.com',
'1yNxC', 'http://dummyimage.com/177x100.png/dddddd/000000', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (75, 'Tomasina Menat', 'tmenat1s', 'tmenat1s@uol.com.br',
'yPhGwT8U3LCP', 'http://dummyimage.com/127x100.png/cc0000/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (76, 'Clarissa Pyburn', 'cpyburn1t', 'cpyburn1t@phoca.cz',
'qpqV8qh', 'http://dummyimage.com/176x100.png/cc0000/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (77, 'Cyrille Mounsie', 'cmounsie1u', 'cmounsie1u@pinterest.com',
'GfIovSns1XJ', 'http://dummyimage.com/188x100.png/ff4444/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (78, 'Rebekkah Peris', 'rperis1v', 'rperis1v@independent.co.uk',
'kr5gm58eDL', 'http://dummyimage.com/133x100.png/dddddd/000000', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (79, 'Lorinda Laker', 'llaker1w', 'llaker1w@dion.ne.jp', '6Ih6CnK',
'http://dummyimage.com/126x100.png/cc0000/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (80, 'Ring Kemmey', 'rkemmey1x', 'rkemmey1x@homestead.com',
'IzxNLuxX1Qa', 'http://dummyimage.com/233x100.png/ff4444/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (81, 'Charlie Koeppe', 'ckoepp1y', 'ckoepp1y@ca.gov',
'OxZ5pmKLsfF', 'http://dummyimage.com/157x100.png/dddddd/000000', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (82, 'Valli Sidery', 'vsidery1z', 'vsidery1z@symantec.com',
'o9oLzHGx3', 'http://dummyimage.com/233x100.png/5fa2dd/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (83, 'Natalina Mathiasen', 'nmathiasen20', 'nmathiasen20@java.com',
'ZbS3nCvTH0', 'http://dummyimage.com/132x100.png/dddddd/000000', false);
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INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (84, 'Kameko McTear', 'kmctear21', 'kmctear21@tumblr.com',
'orkid89a', 'http://dummyimage.com/196x100.png/cc0000/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (85, 'Judd Kidsley', 'jkidsley22', 'jkidsley22@diigo.com', 'saM8ms',
'http://dummyimage.com/186x100.png/cc0000/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (86, 'Angeline Gravie', 'agravie23', 'agravie23@gov.uk',
'imwi32r5e', 'http://dummyimage.com/225x100.png/5fa2dd/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (87, 'Eudora Grut', 'egrut24', 'egrut24@timesonline.co.uk',
'05VYwewj1', 'http://dummyimage.com/209x100.png/ff4444/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (88, 'Merci Bril', 'mbril25', 'mbril25@flickr.com', 'BP8KCNx',
'http://dummyimage.com/124x100.png/dddddd/000000', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (89, 'Toby Joffe', 'tjoffe26', 'tjoffe26@google.it', 'cDPvviMwdGv',
'http://dummyimage.com/210x100.png/ff4444/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (90, 'Clyve Sickert', 'csickert27', 'csickert27@prnewswire.com',
'OhBBJKy', 'http://dummyimage.com/163x100.png/dddddd/000000', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (91, 'Rosene Neasam', 'rneasam28', 'rneasam28@virginia.edu',
'120bUdGa1', 'http://dummyimage.com/192x100.png/ff4444/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (92, 'Nari Snaddon', 'nsnaddon29', 'nsnaddon29@ca.gov', 'M0mCA2X1',
'http://dummyimage.com/164x100.png/ff4444/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (93, 'Dehlia Tremmel', 'dtremmel2a', 'dtremmel2a@google.de',
'rSXVvY', 'http://dummyimage.com/148x100.png/5fa2dd/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (94, 'Gabie Gier', 'ggier2b', 'ggier2b@rediff.com', 'PkfbwGgHtK2',
'http://dummyimage.com/157x100.png/cc0000/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (95, 'Briny Dales', 'bdales2c', 'bdales2c@cafepress.com', '03eHs44',
'http://dummyimage.com/178x100.png/dddddd/000000', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (96, 'Dominique Wooller', 'dwooller2d', 'dwooller2d@icio.us',
'IczHP2', 'http://dummyimage.com/198x100.png/ff4444/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (97, 'Meryl Dahle', 'mdahle2e', 'mdahle2e@pcworld.com',
'ZJ4TYSdssa', 'http://dummyimage.com/223x100.png/cc0000/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (98, 'Fayre Maren', 'fmaren2f', 'fmaren2f@ebay.co.uk', 'Xf059Q',
'http://dummyimage.com/220x100.png/cc0000/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (99, 'Martica Mougeot', 'mmougeot2g', 'mmougeot2g@msu.edu',
'eH3j2scfyUZG', 'http://dummyimage.com/182x100.png/cc0000/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (100, 'Packston Beck', 'pbeck2h', 'pbeck2h@dyndns.org', '6DuvU44fU',
'http://dummyimage.com/173x100.png/ff4444/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (101, 'Stephen Kares', 'skares2i', 'skares2i@posterous.com',
'9lIovE', 'http://dummyimage.com/250x100.png/dddddd/000000', true);
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INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (102, 'North Vynehall', 'nvynehall2j',
'nvynehall2j@odnoklassniki.ru', 'AqEcSdHj0B9t',
'http://dummyimage.com/116x100.png/cc0000/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (103, 'Bail Greir', 'bgreir2k', 'bgreir2k@amazon.com',
'NcUIT6K78E30', 'http://dummyimage.com/184x100.png/dddddd/000000', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (104, 'Truman Humbee', 'thumbee2l', 'thumbee2l@reverbnation.com',
'Afm3TWjCLgSG', 'http://dummyimage.com/248x100.png/cc0000/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (105, 'Mirilla Naper', 'mnaper2m', 'mnaper2m@seattletimes.com',
'Mrp7aXP', 'http://dummyimage.com/172x100.png/cc0000/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (106, 'Jessey Benjamin', 'jbenjamin2n', 'jbenjamin2n@shop-pro.jp',
'FfizfGKy8', 'http://dummyimage.com/207x100.png/5fa2dd/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (107, 'Burtie Spours', 'bspours2o', 'bspours2o@house.gov',
'lm3ec4JF', 'http://dummyimage.com/102x100.png/ff4444/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (108, 'Zed Wardhaw', 'zwardhaw2p', 'zwardhaw2p@posterous.com',
'78bngB', 'http://dummyimage.com/183x100.png/cc0000/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (109, 'Cecily Fitzjohn', 'cfitzjohn2q',
'cfitzjohn2q@businesswire.com', 'sCHiyiA8',
'http://dummyimage.com/117x100.png/ff4444/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (110, 'Roanne Aylmore', 'raylmore2r', 'raylmore2r@yellowpages.com',
'ugnDj2', 'http://dummyimage.com/222x100.png/5fa2dd/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (111, 'Zacharias Edleston', 'zedleston2s', 'zedleston2s@rediff.com',
'gkSvCx8', 'http://dummyimage.com/112x100.png/dddddd/000000', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (112, 'Shanan Mauchline', 'smauchline2t', 'smauchline2t@shop-
pro.jp', '8FNuTR2q', 'http://dummyimage.com/151x100.png/cc0000/ffffff',
true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (113, 'Susan Oliveira', 'soliveira2u', 'soliveira2u@wp.com',
'AHSus7A', 'http://dummyimage.com/202x100.png/5fa2dd/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (114, 'Nikolos Jurgenson', 'njurgenson2v',
'njurgenson2v@timesonline.co.uk', '4QZ6NRpkwzWt',
'http://dummyimage.com/117x100.png/cc0000/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (115, 'Alfonse Bauman', 'abauman2w', 'abauman2w@wikipedia.org',
'VVRQ7CrBXv', 'http://dummyimage.com/146x100.png/ff4444/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (116, 'Clair Sidden', 'csidden2x', 'csidden2x@privacy.gov.au',
'BCPAND9Rai', 'http://dummyimage.com/101x100.png/ff4444/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (117, 'Jarret Boich', 'jboich2y', 'jboich2y@umich.edu', 'xhvnNnSeA',
'http://dummyimage.com/212x100.png/ff4444/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (118, 'Chickie Gillingham', 'cgillingham2z',
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'cgillingham2z@cbslocal.com', 'b6XqhGrRbBip',
'http://dummyimage.com/150x100.png/cc0000/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (119, 'Barthel Carbry', 'bcarbry30', 'bcarbry30@booking.com',
'vQ3cfCVG', 'http://dummyimage.com/157x100.png/ff4444/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (120, 'Avrom Brazelton', 'abrazelton31',
'abrazelton31@timesonline.co.uk', 'z92rA5qn37',
'http://dummyimage.com/203x100.png/5fa2dd/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (121, 'Wilton Burford', 'wburford32', 'wburford32@biglobe.ne.jp',
'mrfeNwiMwsi', 'http://dummyimage.com/169x100.png/5fa2dd/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (122, 'Meghan Bridges', 'mbridges33', 'mbridges33@hostgator.com',
'lQhEuoyVu8S', 'http://dummyimage.com/228x100.png/5fa2dd/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (123, 'Shelagh Audley', 'saudley34',
'saudley34@creativecommons.org', 'IkTvQK1w',
'http://dummyimage.com/250x100.png/cc0000/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (124, 'Ivar Stefi', 'istefi35', 'istefi35@chronoengine.com',
'i9yYpv28C', 'http://dummyimage.com/119x100.png/dddddd/000000', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (125, 'Hunter Arlet', 'harlet36', 'harlet36@quantcast.com',
'9o1F9LzuW', 'http://dummyimage.com/231x100.png/5fa2dd/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (126, 'Brendon Herreros', 'bherreros37', 'bherreros37@about.com',
'exx2t31An8', 'http://dummyimage.com/154x100.png/5fa2dd/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (127, 'Cherye Westerman', 'cwesterman38', 'cwesterman38@ovh.net',
'0cJ49LcIuq5d', 'http://dummyimage.com/228x100.png/dddddd/000000', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (128, 'Griselda Hackey', 'ghackey39', 'ghackey39@opensource.org',
'kwnmH46aaC6', 'http://dummyimage.com/174x100.png/cc0000/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (129, 'Starla Dudeney', 'sdudeney3a',
'sdudeney3a@barnesandnoble.com', 'Mza1PtVE8g',
'http://dummyimage.com/184x100.png/dddddd/000000', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (130, 'Ros Chivers', 'rchivers3b', 'rchivers3b@dot.gov', 'yS87Aa',
'http://dummyimage.com/222x100.png/5fa2dd/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (131, 'Audie Hanrahan', 'ahanrahan3c', 'ahanrahan3c@hp.com',
'G7Aiul', 'http://dummyimage.com/208x100.png/5fa2dd/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (132, 'Lyndell Cumpsty', 'lcumpsty3d',
'lcumpsty3d@odnoklassniki.ru', 'VnG3Smz',
'http://dummyimage.com/188x100.png/ff4444/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (133, 'Murray Hawsby', 'mhawsby3e', 'mhawsby3e@angelfire.com',
'RRuDjiqe', 'http://dummyimage.com/229x100.png/dddddd/000000', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (134, 'Hadleigh Soper', 'hsoper3f', 'hsoper3f@etsy.com',
'ZXMFGFfwZ', 'http://dummyimage.com/210x100.png/cc0000/ffffff', true);
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INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (135, 'Christiana Jeandet', 'cjeandet3g', 'cjeandet3g@discuz.net',
'QP2KDD', 'http://dummyimage.com/231x100.png/dddddd/000000', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (136, 'Bonnie Penylton', 'bpenylton3h', 'bpenylton3h@noaa.gov',
'7tiQ9F', 'http://dummyimage.com/152x100.png/ff4444/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (137, 'Godfree Hammonds', 'ghammonds3i', 'ghammonds3i@google.nl',
'3p4wn4QCxmh', 'http://dummyimage.com/212x100.png/ff4444/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (138, 'Christi Ferries', 'cferries3j', 'cferries3j@goodreads.com',
'r4DIB99', 'http://dummyimage.com/209x100.png/cc0000/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (139, 'Darrelle Fellibrand', 'dfellibrand3k',
'dfellibrand3k@reverbnation.com', 'aXKE3LeavfP',
'http://dummyimage.com/133x100.png/cc0000/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (140, 'Cristiano Whithorn', 'cwhithorn3l',
'cwhithorn3l@omniture.com', 'aqqL5vNxx',
'http://dummyimage.com/237x100.png/ff4444/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (141, 'Cole Ream', 'cream3m', 'cream3m@1und1.de', 'pxU09np',
'http://dummyimage.com/200x100.png/5fa2dd/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (142, 'Randell Edgson', 'redgson3n', 'redgson3n@japanpost.jp',
'jpyYGLUmwiSNM', 'http://dummyimage.com/237x100.png/cc0000/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (143, 'Bondon Umpleby', 'bumpleby3o', 'bumpleby3o@pen.io',
'N0g30VG5FEo', 'http://dummyimage.com/237x100.png/dddddd/000000', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (144, 'Derward Drinkwater', 'ddrinkwater3p',
'ddrinkwater3p@utexas.edu', 'EbmCNdKK9',
'http://dummyimage.com/172x100.png/5fa2dd/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (145, 'Worthington Beange', 'wbeange3q',
'wbeange3q@telegraph.co.uk', 'D7an2a5u',
'http://dummyimage.com/146x100.png/dddddd/000000', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (146, 'Adham Blinkhorn', 'ablinkhorn3r',
'ablinkhorn3r@mayoclinic.com', '4608BvMRptdM',
'http://dummyimage.com/195x100.png/ff4444/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (147, 'Andrea Helliker', 'ahelliker3s', 'ahelliker3s@alexa.com',
'ShXnNQVHvV', 'http://dummyimage.com/101x100.png/dddddd/000000', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (148, 'Eben Duffitt', 'eduffitt3t', 'eduffitt3t@yahoo.com',
'vi2qfp2f', 'http://dummyimage.com/194x100.png/dddddd/000000', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (149, 'Karlis Blacket', 'kblacket3u',
'kblacket3u@cargocollective.com', 'JvG9beCuBZ',
'http://dummyimage.com/202x100.png/5fa2dd/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (150, 'Enrichetta Laurenz', 'elaurenz3v', 'elaurenz3v@amazon.com',
'dHn1eRW', 'http://dummyimage.com/140x100.png/dddddd/000000', false);
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INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (151, 'Thorstein Goschalk', 'tgoschalk3w',
'tgoschalk3w@networkadvertising.org', 'eUugnHpdcM',
'http://dummyimage.com/196x100.png/ff4444/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (152, 'Eleen McQuaide', 'emcquaide3x',
'emcquaide3x@theglobeandmail.com', 'LkRdsLjla3',
'http://dummyimage.com/224x100.png/ff4444/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (153, 'Leif Lawlee', 'llawlee3y', 'llawlee3y@ihg.com', 'XCSXIdS2QZ',
'http://dummyimage.com/188x100.png/5fa2dd/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (154, 'Farr Edgeson', 'fedgeson3z', 'fedgeson3z@theatlantic.com',
'lG3r4zN63A', 'http://dummyimage.com/201x100.png/ff4444/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (155, 'Fanechka Marians', 'fmarians40', 'fmarians40@sitemeter.com',
'Pou9Ybj', 'http://dummyimage.com/112x100.png/cc0000/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (156, 'Allayne Bartholomew', 'abartholomew41',
'abartholomew41@earthlink.net', '7TzVWXbZ2KH2',
'http://dummyimage.com/130x100.png/dddddd/000000', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (157, 'Wynn MacElholm', 'wmacelholm42',
'wmacelholm42@hugedomains.com', 'Ia5hmrnB',
'http://dummyimage.com/194x100.png/dddddd/000000', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (158, 'Alyosha Vynarde', 'avynarde43', 'avynarde43@about.me',
'qnXRe3', 'http://dummyimage.com/134x100.png/cc0000/ffffff', true);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (159, 'Zandra Gillbe', 'zgillbe44', 'zgillbe44@ask.com',
'R4NwYUAZH', 'http://dummyimage.com/128x100.png/ff4444/ffffff', false);
INSERT INTO "user" (id, name, username, email, password, image, banned)
VALUES (160, 'Wright Cobbing', 'wcobbing45', 'wcobbing45@cafepress.com',
'G4LSUWir', 'http://dummyimage.com/146x100.png/ff4444/ffffff', false);

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INSERT INTO Colour (id, name) VALUES (1, 'Mauv');
INSERT INTO Colour (id, name) VALUES (2, 'Puce');
INSERT INTO Colour (id, name) VALUES (3, 'Aquamarine');
INSERT INTO Colour (id, name) VALUES (4, 'Red');
INSERT INTO Colour (id, name) VALUES (5, 'Indigo');
INSERT INTO Colour (id, name) VALUES (6, 'Pink');
INSERT INTO Colour (id, name) VALUES (7, 'Khaki');
INSERT INTO Colour (id, name) VALUES (8, 'Purple');
INSERT INTO Colour (id, name) VALUES (9, 'Violet');
INSERT INTO Colour (id, name) VALUES (10, 'Orange');
INSERT INTO Colour (id, name) VALUES (11, 'Crimson');
INSERT INTO Colour (id, name) VALUES (12, 'Blue');
INSERT INTO Colour (id, name) VALUES (13, 'Dark Red');
INSERT INTO Colour (id, name) VALUES (14, 'Green');
INSERT INTO Colour (id, name) VALUES (15, 'Teal');

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INSERT INTO Brand (id, name) VALUES (1, 'Ferrari');
INSERT INTO Brand (id, name) VALUES (2, 'Bugatti');
INSERT INTO Brand (id, name) VALUES (3, 'Lamborghini');

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INSERT INTO Brand (id, name) VALUES (4, 'Bentley');
INSERT INTO Brand (id, name) VALUES (5, 'Pagani');
INSERT INTO Brand (id, name) VALUES (6, 'BMW');
INSERT INTO Brand (id, name) VALUES (7, 'Mercedes');
INSERT INTO Brand (id, name) VALUES (8, 'Audi');
INSERT INTO Brand (id, name) VALUES (9, 'Citroen');
INSERT INTO Brand (id, name) VALUES (10, 'Alfa Romeo');

INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (123,60);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (22,153);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (56,112);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (31,71);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (73,64);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (143,60);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (87,109);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (98,84);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (117,99);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (143,35);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (152,70);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (86,47);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (28,78);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (16,55);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (80,114);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (70,28);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (52,107);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (84,64);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (12,103);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (24,113);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (76,54);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (25,55);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (104,140);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (70,18);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (118,86);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (62,23);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (61,46);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (38,141);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (92,108);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (82,94);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (18,95);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (154,14);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (113,19);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (156,59);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (107,120);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (20,119);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (149,25);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (130,34);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (24,82);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (86,12);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (107,76);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (107,22);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (15,22);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (67,154);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (119,112);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (56,28);
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INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (88,43);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (148,78);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (158,102);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (14,23);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (135,39);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (81,151);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (42,67);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (119,76);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (139,135);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (14,139);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (147,158);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (27,145);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (142,18);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (101,131);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (127,148);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (30,25);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (64,70);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (27,152);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (68,94);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (99,49);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (12,13);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (45,60);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (63,15);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (120,122);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (80,55);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (22,60);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (117,66);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (137,56);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (142,136);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (28,49);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (144,77);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (23,116);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (58,111);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (96,142);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (35,23);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (26,62);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (62,12);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (155,92);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (116,112);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (124,145);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (68,23);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (72,98);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (131,91);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (64,125);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (136,152);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (53,93);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (18,128);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (83,81);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (41,79);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (32,138);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (106,130);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (84,113);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (64,14);
INSERT INTO FavouriteSeller (user1ID,user2ID) VALUES (133,57);
```



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INSERT INTO Auction (id, title, description, startingPrice, startDate,
finalDate, buyNow, scaleType, brandID, colourID, sellerID) VALUES (1,
'Ferrari', 'sit amet turpis elementum ligula vehicula consequat morbi a
ipsum integer a nibh in quis justo maecenas rhoncus', 82, '2021-03-12
03:06:38', '2021-03-25 04:12:56', null, '1:64', 1, 1, 82);
INSERT INTO Auction (id, title, description, startingPrice, startDate,
finalDate, buyNow, scaleType, brandID, colourID, sellerID) VALUES (2,
'Pontiac', 'ut dolor morbi vel lectus in quam fringilla rhoncus mauris enim
leo rhoncus sed vestibulum sit', 766, '2021-05-11 10:12:35', '2021-05-24
07:20:59', null, '1:43', 5, 2, 80);
INSERT INTO Auction (id, title, description, startingPrice, startDate,
finalDate, buyNow, scaleType, brandID, colourID, sellerID) VALUES (3,
'Nissan', 'vestibulum ante ipsum primis in faucibus orci luctus et ultrices
posuere cubilia curae donec pharetra magna vestibulum aliquet ultrices
erat', 309, '2021-05-16 06:50:23', '2021-06-12 15:33:50', 2616, '1:18', 2,
4, 142);
INSERT INTO Auction (id, title, description, startingPrice, startDate,
finalDate, buyNow, scaleType, brandID, colourID, sellerID) VALUES (4, 'Alfa
Romeo', 'enim in tempor turpis nec euismod scelerisque quam turpis
adipiscing lorem vitae', 231, '2021-04-27 10:08:46', '2021-06-06 14:13:49',
null, '1:64', 2, 10, 55);
INSERT INTO Auction (id, title, description, startingPrice, startDate,
finalDate, buyNow, scaleType, brandID, colourID, sellerID) VALUES (5,
'Mazda', 'viverra dapibus nulla suscipit ligula in lacus curabitur at ipsum
ac tellus semper interdum mauris ullamcorper purus', 777, '2021-03-18
10:57:24', '2021-03-29 15:06:44', null, '1:64', 1, 9, 89);
INSERT INTO Auction (id, title, description, startingPrice, startDate,
finalDate, buyNow, scaleType, brandID, colourID, sellerID) VALUES (6,
'Bentley', 'ipsum dolor sit amet consectetur adipiscing elit proin
interdum mauris non ligula pellentesque', 688, '2021-05-11 11:10:10',
'2021-06-18 21:02:29', null, '1:43', 1, 2, 146);
INSERT INTO Auction (id, title, description, startingPrice, startDate,
finalDate, buyNow, scaleType, brandID, colourID, sellerID) VALUES (7,
'Mazda', 'posuere metus vitae ipsum aliquam non mauris morbi non lectus
aliquam sit amet diam', 866, '2021-04-29 14:53:44', '2021-05-24 23:53:59',
null, '1:64', 7, 6, 75);
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finalDate, buyNow, scaleType, brandID, colourID, sellerID) VALUES (8,
'Mercury', 'id lobortis convallis tortor risus dapibus augue vel accumsan
tellus nisi eu orci mauris lacinia sapien quis libero nullam sit', 679,
'2021-05-13 21:28:52', '2021-06-13 20:54:04', 2807, '1:8', 3, 11, 31);
INSERT INTO Auction (id, title, description, startingPrice, startDate,
finalDate, buyNow, scaleType, brandID, colourID, sellerID) VALUES (9,
'Mercedes-Benz', 'ultrices libero non mattis pulvinar nulla pede
ullamcorper augue a suscipit nulla elit ac nulla sed', 735, '2021-05-07
14:03:41', '2021-06-12 19:24:41', null, '1:43', 5, 4, 46);
INSERT INTO Auction (id, title, description, startingPrice, startDate,
finalDate, buyNow, scaleType, brandID, colourID, sellerID) VALUES (10,
'Dodge', 'vitae nisi nam ultrices libero non mattis pulvinar nulla pede
ullamcorper', 824, '2021-03-04 00:26:32', '2021-03-08 05:55:36', 2107,
'1:64', 4, 3, 43);
INSERT INTO Auction (id, title, description, startingPrice, startDate,
finalDate, buyNow, scaleType, brandID, colourID, sellerID) VALUES (11,
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'Austin', 'nascetur ridiculus mus vivamus vestibulum sagittis sapien cum
sociis natoque penatibus et magnis dis', 554, '2021-05-12 12:28:13', '2021-
06-13 13:57:58', 2810, '1:18', 3, 12, 93);
INSERT INTO Auction (id, title, description, startingPrice, startDate,
finalDate, buyNow, scaleType, brandID, colourID, sellerID) VALUES (12,
'Ford', 'dui vel sem sed sagittis nam congue risus semper porta volutpat
quam', 181, '2021-05-16 06:59:54', '2021-05-29 17:02:18', null, '1:43', 8,
3, 74);
INSERT INTO Auction (id, title, description, startingPrice, startDate,
finalDate, buyNow, scaleType, brandID, colourID, sellerID) VALUES (13,
'Nissan', 'nullam porttitor lacus at turpis donec posuere metus vitae ipsum
aliquam non mauris', 746, '2021-04-29 16:07:57', '2021-05-31 19:16:36',
null, '1:64', 2, 11, 98);
INSERT INTO Auction (id, title, description, startingPrice, startDate,
finalDate, buyNow, scaleType, brandID, colourID, sellerID) VALUES (14,
'Chevrolet', 'nec nisi vulputate nonummy maecenas tincidunt lacus at velit
vivamus vel nulla', 972, '2021-04-26 21:14:52', '2021-06-13 07:14:37',
4637, '1:18', 9, 6, 15);
INSERT INTO Auction (id, title, description, startingPrice, startDate,
finalDate, buyNow, scaleType, brandID, colourID, sellerID) VALUES (15,
'Pontiac', 'adipiscing lorem vitae mattis nibh ligula nec sem dui aliquam
convallis', 382, '2021-03-19 11:36:52', '2021-03-29 13:47:55', 1870, '1:8',
9, 6, 146);
INSERT INTO Auction (id, title, description, startingPrice, startDate,
finalDate, buyNow, scaleType, brandID, colourID, sellerID) VALUES (16,
'Hummer', 'et eros vestibulum ac est lacinia nisi venenatis tristique fusce
congue diam id ornare imperdiet', 882, '2021-05-10 20:30:35', '2021-06-08
21:26:50', 2792, '1:64', 8, 13, 77);
INSERT INTO Auction (id, title, description, startingPrice, startDate,
finalDate, buyNow, scaleType, brandID, colourID, sellerID) VALUES (17,
'Kia', 'placerat ante nulla justo aliquam quis turpis eget elit sodales
scelerisque mauris sit amet eros suspendisse accumsan', 519, '2021-05-14
15:36:09', '2021-06-08 00:00:35', null, '1:64', 4, 3, 147);
INSERT INTO Auction (id, title, description, startingPrice, startDate,
finalDate, buyNow, scaleType, brandID, colourID, sellerID) VALUES (18,
'Volkswagen', 'tortor sollicitudin mi sit amet lobortis sapien sapien non
mi', 370, '2021-05-16 04:46:16', '2021-05-24 07:50:01', null, '1:43', 6,
10, 69);
INSERT INTO Auction (id, title, description, startingPrice, startDate,
finalDate, buyNow, scaleType, brandID, colourID, sellerID) VALUES (19,
'Mazda', 'in quam fringilla rhoncus mauris enim leo rhoncus sed vestibulum
sit amet cursus id turpis integer', 979, '2021-05-13 12:22:45', '2021-06-11
10:16:26', 4786, '1:43', 10, 2, 20);
INSERT INTO Auction (id, title, description, startingPrice, startDate,
finalDate, buyNow, scaleType, brandID, colourID, sellerID) VALUES (20,
'Chevrolet', 'sed sagittis nam congue risus semper porta volutpat quam pede
lobortis ligula sit amet eleifend', 176, '2021-03-11 01:20:07', '2021-03-15
00:50:16', 1694, '1:18', 8, 13, 120);

INSERT INTO Image (id, url, auctionID) VALUES (1,
'https://mrcollection.com/wp-content/uploads/2018/07/ferrari-portofino-
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giallo_02.jpg',1);
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giallo_04.jpg',1);
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giallo_05.jpg',1);
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giallo_06.jpg',1);
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giallo_07.jpg',1);

INSERT INTO Image (id, url, auctionID) VALUES (8,
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black_01.jpg',2);
INSERT INTO Image (id, url, auctionID) VALUES (9,
'https://mrcollection.com/wp-content/uploads/2016/08/bugatti-chiron-
black_02.jpg',2);
INSERT INTO Image (id, url, auctionID) VALUES (10,
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black_03.jpg',2);
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'https://mrcollection.com/wp-content/uploads/2016/08/bugatti-chiron-
black_06.jpg',2);
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black_07.jpg',2);

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'https://mrcollection.com/wp-content/uploads/2017/09/ferrari-812-superfast-
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'https://mrcollection.com/wp-content/uploads/2017/09/ferrari-812-superfast-
rosso-scuderia_02.jpg',3);
INSERT INTO Image (id, url, auctionID) VALUES (17,
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rosso-scuderia_03.jpg',3);
INSERT INTO Image (id, url, auctionID) VALUES (18,
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rosso-scuderia_04.jpg',3);
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rosso-scuderia_07.jpg',3);

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'https://mrcollection.com/wp-content/uploads/2016/06/ferrari-f12tdf-
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INSERT INTO Image (id, url, auctionID) VALUES (23,
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blu_03.jpg',5);
INSERT INTO Image (id, url, auctionID) VALUES (25,
'https://mrcollection.com/wp-content/uploads/2016/06/ferrari-f12tdf-
blu_04.jpg',5);
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content/uploads/2015/11/ferrari_488_spider_scale_1_18_fe017-1.jpg',6);
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'https://mrcollection.com/wp-
content/uploads/2015/11/ferrari_488_spider_scale_1_18_fe017-2.jpg',6);
INSERT INTO Image (id, url, auctionID) VALUES (30,
'https://mrcollection.com/wp-
content/uploads/2015/11/ferrari_488_spider_scale_1_18_fe017-3.jpg',6);
INSERT INTO Image (id, url, auctionID) VALUES (31,
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content/uploads/2015/11/ferrari_488_spider_scale_1_18_fe017-4.jpg',6);
INSERT INTO Image (id, url, auctionID) VALUES (32,
'https://mrcollection.com/wp-
content/uploads/2015/11/ferrari_488_spider_scale_1_18_fe017-5.jpg',6);
INSERT INTO Image (id, url, auctionID) VALUES (33,
'https://mrcollection.com/wp-
content/uploads/2015/11/ferrari_488_spider_scale_1_18_fe017-6.jpg',6);
INSERT INTO Image (id, url, auctionID) VALUES (34,
'https://mrcollection.com/wp-
content/uploads/2015/11/ferrari_488_spider_scale_1_18_fe017-7.jpg',6);

INSERT INTO Image (id, url, auctionID) VALUES (35,
'https://mrcollection.com/wp-content/uploads/2018/01/lamborghini-
centenario-roadster-black_01.jpg',7);
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'https://mrcollection.com/wp-content/uploads/2018/01/lamborghini-
centenario-roadster-black_02.jpg',7);
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'https://mrcollection.com/wp-content/uploads/2018/01/lamborghini-
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'https://mrcollection.com/wp-content/uploads/2018/01/lamborghini-
centenario-roadster-black_04.jpg',7);
INSERT INTO Image (id, url, auctionID) VALUES (39,
'https://mrcollection.com/wp-content/uploads/2018/01/lamborghini-
centenario-roadster-black_05.jpg',7);
INSERT INTO Image (id, url, auctionID) VALUES (40,
'https://mrcollection.com/wp-content/uploads/2018/01/lamborghini-
centenario-roadster-black_06.jpg',7);
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'https://mrcollection.com/wp-content/uploads/2018/01/lamborghini-
centenario-roadster-black_07.jpg',7);

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s-blue_01.jpg',8);
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s-blue_02.jpg',8);
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s-blue_04.jpg',8);
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s-blue_05.jpg',8);
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s-blue_07.jpg',8);

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continental-gt-01.jpg',9);
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continental-gt-02.jpg',9);
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performante-yellow_01.jpg',10);
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'https://mrcollection.com/wp-content/uploads/2017/10/lamborghini-
performante-yellow_04.jpg',10);
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'https://mrcollection.com/wp-content/uploads/2017/10/lamborghini-
performante-yellow_05.jpg',10);
INSERT INTO Image (id, url, auctionID) VALUES (57,
'https://mrcollection.com/wp-content/uploads/2017/10/lamborghini-
performante-yellow_06.jpg',10);
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performante-yellow_07.jpg',10);

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azzurro_01.jpg',11);
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azzurro_02.jpg',11);
INSERT INTO Image (id, url, auctionID) VALUES (61,
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azzurro_03.jpg',11);
INSERT INTO Image (id, url, auctionID) VALUES (62,
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azzurro_05.jpg',11);
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roadster_01.jpg',13);
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roadster_02.jpg',13);
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roadster_03.jpg',13);
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roadster_04.jpg',13);
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roadster_07.jpg',13);

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'https://wallpaperaccess.com/full/2014211.jpg',14);
INSERT INTO Image (id, url, auctionID) VALUES (82,
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8k_3-3840x2160.jpg',14);
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108609598.jpg',15);
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toy-car-isolated-against-white-background-epic-rear-citroen-cv-car-
108613673.jpg',15);
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INSERT INTO Image (id, url, auctionID) VALUES (87,
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02.jpg/_jcr_content/renditions/cq5dam.resized.img.585.low.time1615557677213
.jpg',16);
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series/i4/landingpage/bmw-i4-mini-landingpage-ms-
03.jpg/_jcr_content/renditions/cq5dam.resized.img.585.low.time1615557677658
.jpg',16);
INSERT INTO Image (id, url, auctionID) VALUES (90,
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series/i4/landingpage/bmw-i4-mini-landingpage-ms-
04.jpg/_jcr_content/renditions/cq5dam.resized.img.585.low.time1615557677803
.jpg',16);

INSERT INTO Image (id, url, auctionID) VALUES (91, 'https://www.mercedes-
benz.pt/passengercars/mercedes-benz-cars/models/a-class/hatchback-
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20190806161151.jpeg',17);
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set.MQ6.12.20190806161151.jpeg',17);
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'https://www.audi.pt/content/dam/nemo/models/tt/tt-rs-roadster/my-
2017/1920x1080-gallery/1920x1080_A162850_large.jpg?output-
format=webp&downsize=1459px:*',18);
INSERT INTO Image (id, url, auctionID) VALUES (95,
'https://www.audi.pt/content/dam/nemo/models/tt/tt-rs-roadster/my-
2017/1920x1080-gallery/1920x1080_A162855_large.jpg?output-
format=webp&downsize=1459px:*',18);
INSERT INTO Image (id, url, auctionID) VALUES (96,
'https://www.audi.pt/content/dam/nemo/models/tt/tt-rs-roadster/my-
2017/1920x1080-gallery/1920x1080_A162866_large.jpg?output-
format=webp&downsize=1459px:*',18);

INSERT INTO Image (id, url, auctionID) VALUES (97,
'https://mrcollection.com/wp-content/uploads/2015/08/Ferrari-599XX-
Evo_017.jpg',19);
INSERT INTO Image (id, url, auctionID) VALUES (98,
'https://mrcollection.com/wp-content/uploads/2015/08/Ferrari-599XX-
Evo_027.jpg',19);

INSERT INTO Image (id, url, auctionID) VALUES (99,
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'https://mrcollection.com/wp-content/uploads/2015/08/Ferrari-F12-Berlinetta_0210.jpg',20);  
INSERT INTO Image (id, url, auctionID) VALUES (100,  
'https://mrcollection.com/wp-content/uploads/2015/08/Ferrari-F12-Berlinetta_0110.jpg',20);
```

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INSERT INTO FavouriteAuction (userID,auctionID) VALUES (151,15);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (135,2);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (124,6);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (90,8);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (88,11);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (138,5);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (100,12);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (123,5);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (99,10);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (17,8);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (160,7);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (115,4);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (134,11);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (82,14);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (98,14);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (126,18);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (130,5);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (142,20);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (57,18);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (24,3);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (148,8);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (94,17);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (20,1);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (12,14);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (11,5);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (145,14);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (52,4);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (61,6);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (12,19);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (149,12);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (135,20);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (72,4);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (81,18);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (81,12);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (37,4);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (94,5);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (105,13);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (49,15);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (114,5);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (151,4);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (56,12);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (140,9);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (53,11);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (15,15);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (141,13);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (47,20);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (49,8);  
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (158,18);
```



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INSERT INTO FavouriteAuction (userID,auctionID) VALUES (48,6);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (108,4);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (60,14);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (127,5);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (134,10);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (63,17);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (69,6);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (79,4);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (147,20);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (160,13);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (122,11);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (47,13);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (146,15);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (70,17);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (53,5);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (136,17);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (135,16);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (131,15);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (149,17);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (137,19);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (144,11);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (132,13);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (17,16);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (141,12);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (76,12);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (55,15);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (83,13);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (125,1);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (41,16);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (51,6);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (71,12);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (149,6);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (96,14);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (46,18);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (61,9);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (40,18);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (110,20);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (94,18);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (38,17);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (30,15);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (106,10);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (152,15);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (92,16);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (150,20);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (98,17);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (27,14);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (98,7);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (39,12);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (39,10);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (95,10);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (143,5);
INSERT INTO FavouriteAuction (userID,auctionID) VALUES (47,5);

INSERT INTO HelpMessage (id, text, datehour, read, senderid, recipientid)
```

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VALUES (1, 'ultrices posuere cubilia curae nulla dapibus dolor vel est
donec odio justo', '2021-03-08 19:36:38', true, 155, 1);
INSERT INTO HelpMessage (id, text, datehour, read, senderid, recipientid)
VALUES (2, 'cras pellentesque volutpat dui maecenas tristique est et tempus
semper est quam pharetra magna ac consequat', '2021-03-05 00:15:06', false,
35, 10);
INSERT INTO HelpMessage (id, text, datehour, read, senderid, recipientid)
VALUES (3, 'sapien iaculis congue vivamus metus arcu adipiscing molestie
hendrerit at vulputate vitae nisl aenean lectus pellentesque eget nunc
donec quis', '2021-03-07 07:47:16', true, 17, 4);
INSERT INTO HelpMessage (id, text, datehour, read, senderid, recipientid)
VALUES (4, 'vestibulum proin eu mi nulla ac enim in tempor turpis nec
euismod scelerisque quam turpis adipiscing lorem vitae', '2021-03-04
18:41:48', true, 137, 2);
INSERT INTO HelpMessage (id, text, datehour, read, senderid, recipientid)
VALUES (5, 'mauris morbi non lectus aliquam sit amet diam in magna bibendum
imperdiet nullam orci pede venenatis', '2021-03-07 17:53:37', true, 154,
6);
INSERT INTO HelpMessage (id, text, datehour, read, senderid, recipientid)
VALUES (6, 'porta volutpat erat quisque erat eros viverra eget congue
eget', '2021-03-04 06:11:20', true, 121, 3);
INSERT INTO HelpMessage (id, text, datehour, read, senderid, recipientid)
VALUES (7, 'etiam justo etiam pretium iaculis justo in hac habitasse platea
dictumst etiam faucibus cursus urna ut tellus', '2021-03-07 02:18:27',
false, 48, 5);
INSERT INTO HelpMessage (id, text, datehour, read, senderid, recipientid)
VALUES (8, 'magnis dis parturient montes nascetur ridiculus mus vivamus
vestibulum sagittis sapien cum sociis natoque penatibus et magnis dis',
'2021-03-04 14:56:46', true, 154, 6);
INSERT INTO HelpMessage (id, text, datehour, read, senderid, recipientid)
VALUES (9, 'condimentum neque sapien placerat ante nulla justo aliquam quis
turpis eget elit sodales scelerisque mauris sit', '2021-03-05 19:14:44',
false, 39, 1);
INSERT INTO HelpMessage (id, text, datehour, read, senderid, recipientid)
VALUES (10, 'mi nulla ac enim in tempor turpis nec euismod scelerisque quam
turpis adipiscing lorem', '2021-03-06 14:52:43', false, 98, 9);
INSERT INTO HelpMessage (id, text, datehour, read, senderid, recipientid)
VALUES (11, 'ante vel ipsum praesent blandit lacinia erat vestibulum sed
magna at nunc commodo placerat praesent blandit nam nulla integer', '2021-
03-07 22:25:42', false, 38, 8);
INSERT INTO HelpMessage (id, text, datehour, read, senderid, recipientid)
VALUES (12, 'quam suspendisse potenti nullam porttitor lacus at turpis
donec posuere metus vitae ipsum aliquam non mauris', '2021-03-05 01:04:22',
false, 115, 4);
INSERT INTO HelpMessage (id, text, datehour, read, senderid, recipientid)
VALUES (13, 'enim leo rhoncus sed vestibulum sit amet cursus id turpis
integer aliquet massa', '2021-03-08 21:05:36', false, 1, 155);
INSERT INTO HelpMessage (id, text, datehour, read, senderid, recipientid)
VALUES (14, 'maecenas tristique est et tempus semper est quam pharetra
magna ac consequat metus sapien ut', '2021-03-07 10:15:20', true, 4, 17);
INSERT INTO HelpMessage (id, text, datehour, read, senderid, recipientid)
VALUES (15, 'ipsum primis in faucibus orci luctus et ultrices posuere
cubilia', '2021-03-04 00:00:15', false, 2, 137);
INSERT INTO HelpMessage (id, text, datehour, read, senderid, recipientid)
```

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VALUES (16, 'vel accumsan tellus nisi eu orci mauris lacinia sapien quis libero', '2021-03-07 19:45:20', false, 6, 154);
INSERT INTO HelpMessage (id, text, datehour, read, senderid, recipientid)
VALUES (17, 'integer aliquet massa id lobortis convallis tortor risus dapibus augue vel accumsan', '2021-03-04 09:23:51', true, 3, 121);
INSERT INTO HelpMessage (id, text, datehour, read, senderid, recipientid)
VALUES (18, 'viverra diam vitae quam suspendisse potenti nullam porttitor lacus at turpis donec posuere', '2021-03-04 16:05:27', false, 6, 154);

INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (1, 'arcu sed augue aliquam erat volutpat in congue etiam justo etiam pretium', '2021-03-04 18:45:39', 114, 8);
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (2, 'integer pede justo lacinia eget tincidunt eget tempus vel pede morbi porttitor lorem id ligula suspendisse ornare consequat lectus', '2021-03-04 15:43:06', 35, 8);
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (3, 'sit amet erat nulla tempus vivamus in felis eu sapien cursus vestibulum proin eu', '2021-03-05 06:03:28', 88, 20);
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (4, 'at ipsum ac tellus semper interdum mauris ullamcorper purus sit amet nulla', '2021-03-08 16:35:36', 71, 19);
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (5, 'phasellus sit amet erat nulla tempus vivamus in felis eu', '2021-03-04 00:47:39', 63, 17);
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (6, 'id consequat in consequat ut nulla sed accumsan felis ut at dolor quis odio consequat varius integer ac leo pellentesque', '2021-03-08 09:21:12', 85, 5);
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (7, 'nibh ligula nec sem dui aliquam convallis nunc proin at turpis a pede posuere', '2021-03-07 11:22:03', 54, 15);
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (8, 'nulla mollis molestie lorem quisque ut erat curabitur gravida nisi at nibh in hac habitasse platea dictumst aliquam', '2021-03-07 06:30:16', 99, 10);
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (9, 'erat eros viverra eget congue eget semper rutrum nulla nunc purus phasellus in felis donec semper sapien a libero nam', '2021-03-06 23:01:09', 104, 4);
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (10, 'sapien a libero nam dui proin leo odio porttitor id consequat', '2021-03-06 21:45:28', 78, 16);
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (11, 'primis in faucibus orci luctus et ultrices posuere cubilia curae nulla dapibus dolor vel est donec odio justo sollicitudin', '2021-03-06 22:03:37', 111, 12);
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (12, 'suspendisse accumsan tortor quis turpis sed ante vivamus tortor dui mattis egestas metus aenean fermentum donec', '2021-03-04 17:15:57', 30, 11);
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (13, 'viverra eget congue eget semper rutrum nulla nunc purus phasellus in', '2021-03-06 01:29:47', 105, 9);
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (14,
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'cum sociis natoque penatibus et magnis dis parturient montes nascetur  
ridiculus', '2021-03-04 08:24:28', 124, 10);  
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (15,  
'lectus in est risus auctor sed tristique in tempus sit amet sem fusce  
consequat nulla nisl', '2021-03-06 22:11:57', 57, 5);  
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (16,  
'elit proin risus praesent lectus vestibulum quam sapien varius ut blandit  
non interdum', '2021-03-07 18:21:58', 113, 1);  
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (17,  
'ipsum ac tellus semper interdum mauris ullamcorper purus sit amet nulla  
quisque arcu libero rutrum ac', '2021-03-06 03:03:14', 123, 10);  
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (18,  
'est phasellus sit amet erat nulla tempus vivamus in felis eu sapien cursus  
vestibulum proin', '2021-03-07 21:39:55', 50, 1);  
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (19,  
'in tempor turpis nec euismod scelerisque quam turpis adipiscing lorem  
vitae mattis nibh ligula', '2021-03-04 17:53:22', 125, 4);  
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (20,  
'purus sit amet nulla quisque arcu libero rutrum ac lobortis vel dapibus  
at', '2021-03-06 09:20:16', 152, 15);  
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (21,  
'augue vel accumsan tellus nisi eu orci mauris lacinia sapien quis libero  
nullam sit amet turpis', '2021-03-05 13:15:34', 68, 9);  
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (22,  
'eu mi nulla ac enim in tempor turpis nec euismod scelerisque quam turpis  
adipiscing lorem vitae mattis nibh ligula nec', '2021-03-06 13:40:00', 124,  
18);  
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (23,  
'mi pede malesuada in imperdiet et commodo vulputate justo in blandit  
ultrices enim lorem ipsum dolor sit amet', '2021-03-05 14:16:16', 138, 1);  
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (24,  
'fusce lacus purus aliquet at feugiat non pretium quis lectus suspendisse  
potenti in eleifend', '2021-03-07 06:31:14', 23, 20);  
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (25,  
'ultrices libero non mattis pulvinar nulla pede ullamcorper augue a  
suscipit nulla elit ac nulla sed vel enim sit', '2021-03-08 13:14:36', 139,  
16);  
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (26,  
'luctus et ultrices posuere cubilia curae nulla dapibus dolor vel est',  
'2021-03-06 23:20:31', 70, 15);  
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (27,  
'nulla facilisi cras non velit nec nisi vulputate nonummy maecenas  
tincidunt lacus at velit vivamus vel nulla eget eros elementum', '2021-03-  
05 03:22:36', 151, 14);  
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (28,  
'velit donec diam neque vestibulum eget vulputate ut ultrices vel augue  
vestibulum', '2021-03-05 23:37:46', 72, 19);  
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (29,  
'nec nisi volutpat eleifend donec ut dolor morbi vel lectus in quam  
fringilla', '2021-03-05 15:38:29', 122, 4);  
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (30,  
'sapien a libero nam dui proin leo odio porttitor id consequat in  
consequat', '2021-03-05 11:36:04', 27, 2);  
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (31,
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'mauris laoreet ut rhoncus aliquet pulvinar sed nisl nunc rhoncus dui vel
sem', '2021-03-06 01:34:49', 19, 7);
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (32,
'tincidunt in leo maecenas pulvinar lobortis est phasellus sit amet erat
nulla', '2021-03-06 03:03:39', 137, 19);
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (33,
'est congue elementum in hac habitasse platea dictumst morbi vestibulum
velit id pretium iaculis diam erat', '2021-03-04 08:02:50', 87, 16);
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (34,
'sit amet cursus id turpis integer aliquet massa id lobortis convallis
tortor risus dapibus augue vel accumsan tellus nisi eu', '2021-03-05
14:34:40', 37, 5);
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (35,
'nunc donec quis orci eget orci vehicula condimentum curabitur in libero ut
massa volutpat convallis morbi odio', '2021-03-08 03:43:28', 139, 12);
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (36,
'pretium quis lectus suspendisse potenti in eleifend quam a odio', '2021-
03-05 16:53:10', 21, 17);
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (37,
'vitae mattis nibh ligula nec sem dui aliquam convallis nunc', '2021-03-04
06:18:14', 42, 3);
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (38,
'penatibus et magnis dis parturient montes nascetur ridiculus mus vivamus',
'2021-03-04 14:58:52', 42, 15);
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (39,
'integer ac neque dui bibendum morbi non quam nec dui luctus rutrum nulla
tellus in sagittis', '2021-03-05 13:34:59', 73, 19);
INSERT INTO Comment (id, text, datehour, authorid, auctionid) VALUES (40,
'parturient montes nascetur ridiculus mus vivamus vestibulum sagittis
sapien cum sociis natoque', '2021-03-08 18:44:58', 159, 9);

INSERT INTO Report (id, reason, dateHour, reporterID,
stateType, locationAuctionID) VALUES (1, 'ipsum integer a nibh in quis justo
maecenas rhoncus aliquam lacus morbi', '2020-06-22 21:27:33', 96,
'Banned', 1);
INSERT INTO Report (id, reason, dateHour, reporterID,
stateType, locationCommentID) VALUES (2, 'luctus nec molestie sed justo
pellentesque viverra pede ac diam', '2020-02-28 06:16:29', 66, 'Banned', 4);
INSERT INTO Report (id, reason, dateHour, reporterID,
stateType, locationRegisteredID) VALUES (3, 'neque vestibulum eget vulputate
ut ultrices vel augue vestibulum ante ipsum primis', '2021-03-09 04:49:21',
29, 'Waiting', 23);
INSERT INTO Report (id, reason, dateHour, reporterID,
stateType, locationRegisteredID) VALUES (4, 'turpis sed ante vivamus tortor
duis mattis egestas metus aenean fermentum donec ut mauris eget massa
tempor convallis nulla', '2020-03-10 17:03:15', 27, 'Banned', 19);
INSERT INTO Report (id, reason, dateHour, reporterID,
stateType, locationAuctionID) VALUES (5, 'hac habitasse platea dictumst
maecenas ut massa quis augue luctus tincidunt nulla mollis molestie lorem
quisque ut erat', '2020-06-13 14:08:03', 55, 'Banned', 14);
INSERT INTO Report (id, reason, dateHour, reporterID,
stateType, locationCommentID) VALUES (6, 'eros viverra eget congue eget
semper rutrum nulla nunc purus phasellus in felis donec semper', '2021-03-
23 13:52:29', 52, 'Discarded', 12);
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INSERT INTO Report (id, reason, dateHour, reporterID,
stateType,locationCommentID) VALUES (7, 'id mauris vulputate elementum
nullam varius nulla facilisi cras non velit nec nisi vulputate nonummy
maecenas tincidunt', '2020-07-27 18:15:16', 57, 'Banned',7);
INSERT INTO Report (id, reason, dateHour, reporterID,
stateType,locationAuctionID) VALUES (8, 'sit amet consectetur adipiscing
elit proin interdum mauris non ligula pellentesque ultrices phasellus id',
'2020-01-13 01:57:43', 54, 'Discarded',18);
INSERT INTO Report (id, reason, dateHour, reporterID,
stateType,locationAuctionID) VALUES (9, 'ac nulla sed vel enim sit amet
nunc viverra dapibus nulla suscipit ligula in lacus curabitur at ipsum ac',
'2021-03-25 17:29:40', 9, 'Discarded',11);
INSERT INTO Report (id, reason, dateHour, reporterID,
stateType,locationRegisteredID) VALUES (10, 'massa quis augue luctus
tincidunt nulla mollis molestie lorem quisque ut erat curabitur gravida
nisi at nibh', '2020-08-03 11:57:05', 68, 'Banned',45);

INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (1, 804,
'2021-03-21 12:45:53', 129, 4);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (2, 1001,
'2021-03-21 12:46:53', 115, 2);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (3, 1002,
'2021-03-21 12:47:53', 76, 13);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (4, 1003,
'2021-03-21 12:48:53', 58, 12);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (5, 1004,
'2021-03-21 12:49:53', 70, 1);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (6, 1005,
'2021-03-21 12:50:53', 119, 18);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (7, 1006,
'2021-03-21 12:51:53', 75, 3);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (8, 1007,
'2021-03-21 12:52:50', 99, 2);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (9, 1008,
'2021-03-21 12:52:51', 107, 3);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (10,
1009, '2021-03-21 12:52:51', 39, 4);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (11,
1010, '2021-03-21 12:52:52', 77, 4);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (12,
1011, '2021-03-21 12:52:53', 16, 5);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (13,
1012, '2021-03-21 12:52:54', 59, 7);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (14,
1013, '2021-03-21 12:52:55', 14, 11);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (15,
1014, '2021-03-21 12:52:56', 39, 15);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (16,
1015, '2021-03-21 12:52:57', 122, 10);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (17,
1016, '2021-03-21 12:52:58', 114, 16);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (18,
1017, '2021-03-21 12:52:59', 129, 20);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (19,
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1018, '2021-03-21 12:53:50', 102, 20);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (20,
1019, '2021-03-21 12:53:51', 147, 19);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (21,
1020, '2021-03-21 12:53:52', 30, 5);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (22,
1021, '2021-03-21 12:53:53', 52, 4);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (23,
1022, '2021-03-21 12:53:54', 127, 12);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (24,
1023, '2021-03-21 12:53:55', 108, 11);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (25,
1024, '2021-03-21 12:53:56', 24, 16);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (26,
1025, '2021-03-21 12:53:57', 65, 9);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (27,
1026, '2021-03-21 12:53:58', 58, 19);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (28,
1027, '2021-03-21 12:53:59', 59, 16);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (29,
1028, '2021-03-21 12:54:50', 89, 20);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (30,
1029, '2021-03-21 12:54:51', 144, 11);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (31,
1030, '2021-03-21 12:54:52', 102, 4);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (32,
1031, '2021-03-21 12:54:53', 66, 16);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (33,
1032, '2021-03-21 12:54:54', 87, 3);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (34,
1033, '2021-03-21 12:54:55', 146, 1);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (35,
1034, '2021-03-21 12:54:56', 82, 14);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (36,
1035, '2021-03-21 12:54:57', 23, 11);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (37,
1036, '2021-03-21 12:54:58', 149, 10);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (38,
1037, '2021-03-21 12:54:59', 58, 14);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (39,
1038, '2021-03-21 12:55:50', 84, 19);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (40,
1039, '2021-03-21 12:55:51', 114, 14);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (41,
1040, '2021-03-21 12:55:52', 82, 2);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (42,
1041, '2021-03-21 12:55:53', 97, 19);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (43,
1042, '2021-03-21 12:55:54', 63, 14);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (44,
1043, '2021-03-21 12:55:55', 118, 10);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (45,
1044, '2021-03-21 12:55:56', 139, 15);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (46,
```

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1045, '2021-03-21 12:55:57', 111, 7);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (47,
1046, '2021-03-21 12:55:58', 117, 17);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (48,
1047, '2021-03-21 12:55:59', 53, 12);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (49,
1048, '2021-03-21 12:56:53', 120, 9);
INSERT INTO Bid (id, value, dateHour, authorID, auctionID) VALUES (50,
1049, '2021-03-21 12:57:53', 67, 10);

INSERT INTO Rating (auctionID, winnerID, value, dateHour, comment) VALUES
(1, 146, 1, '2021-03-15 22:12:09', 'metus arcu adipiscing molestie
hendrerit at vulputate vitae nisl aenean lectus pellentesque eget nunc
donec quis orci');
INSERT INTO Rating (auctionID, winnerID, value, dateHour, comment) VALUES
(10, 67, 2, '2021-03-16 02:19:04', 'et ultrices posuere cubilia curae dui
faucibus accumsan odio curabitur convallis dui consequat dui nec nisi');
INSERT INTO Rating (auctionID, winnerID, value, dateHour, comment) VALUES
(15, 139, 2, '2021-03-09 00:48:27', 'dui luctus rutrum nulla tellus in
sagittis dui vel nisl dui');
INSERT INTO Rating (auctionID, winnerID, value, dateHour, comment) VALUES
(20, 89, 3, '2021-03-12 16:00:03', 'accumsan felis ut at dolor quis odio
consequat varius integer ac leo');
```

Revision History

Changes made to the first submission:

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