Largo - Aplikacja Aukcji Online

Database Documentation

📁 Tables

Objects ⑥

Name	Description
auction_price_history	Stores a chronological log of all bidding transactions and price increases for audit and tracking purposes
auctions	Contains core data for items listed for sale, including pricing, timing, and current status
categorie_auction	Table that connects auctions and categories in a many-to-many relationship
categories	Table defining auction item classification groups
photos_item	Table for managing photos related to specific auctions
users	Table storing user information and authentication data for all registered participants in the system.

⊞ auction_price_history

Description

Stores a chronological log of all bidding transactions and price increases for audit and tracking purposes

Columns ❺

Key	Name	Data Type	Length	Precision	Scale	Unsigned	Zerofill	Binary	Not Null	Auto Increment	Default	Virtual	Invisible	Description
🔑	id_price_history	INT		11		True	False	False	True	True		False	False	Identifier for a specific bid event
🔑	id_auction	INT		11		True	False	False	True	False		False	False	Foreign key linking the bid to a specific auction record
🔑	id_user	INT		11		True	False	False	True	False		False	False	Foreign key identifying the bidder who submitted the offer
	new_price	DECIMAL		10	2	False	False	False	True	False		False	False	New, higher amount declared by the bidder
	price_reprint_date	DATETIME		0		False	False	False	True	False	CURRENT_TIMESTAMP	False	False	Date and time of creation of the new price

Foreign Keys ❷

Name	Columns	Delete Rule	Update Rule
aph_id_auction_foreign	id_auction	N/S	N/S
aph_id_user_foreign	id_user	N/S	N/S

SQL Script

```sql
CREATE TABLE auction_price_history (
  id_price_history int UNSIGNED NOT NULL AUTO_INCREMENT,
  id_auction int UNSIGNED NOT NULL,
  id_user int UNSIGNED NOT NULL,
  new_price decimal(10, 2) NOT NULL,
  price_reprint_date datetime NOT NULL DEFAULT CURRENT_TIMESTAMP,
  PRIMARY KEY (id_price_history)
)
ENGINE = INNODB,
CHARACTER SET utf8mb4,
COLLATE utf8mb4_0900_ai_ci;

ALTER TABLE auction_price_history
ADD CONSTRAINT aph_id_auction_foreign FOREIGN KEY (id_auction)
REFERENCES auctions (id_auction);

ALTER TABLE auction_price_history
ADD CONSTRAINT aph_id_user_foreign FOREIGN KEY (id_user)
REFERENCES users (id_user);
```

Depends On ❷

⊞ auctions
⊞ users

⊞ auctions

Description

Contains core data for items listed for sale, including pricing, timing, and current status

Columns 10

Key	Name	Data Type	Length	Precision	Scale	Unsigned	Zerofill	Binary	Not Null	Auto Increment	Default	Virtual	Invisible	Description
🔑	id_auction	INT		11		True	False	False	True	True		False	False	Auction identifier
	title	VARCHAR	255			False	False	False	True	False		False	False	Auction name
	description	VARCHAR	2048			False	False	False	True	False		False	False	Auction description
🔑	id_seller	INT		11		True	False	False	True	False		False	False	ID of the user posting the auction
	start_price	DECIMAL		10	2	False	False	False	True	False		False	False	Starting price
	start_date	DATETIME		0		False	False	False	True	False		False	False	Auction start date
	end_date	DATETIME		0		False	False	False	True	False		False	False	Auction end date
	overtime	INT		11		False	False	False	True	False	'0'	False	False	Auction extension time
	status	ENUM	0			False	False	False	True	False		False	False	Enumerated value representing the current phase
🔑	id_winner	INT		11		True	False	False	False	False	NULL	False	False	ID user who submitted the highest valid bid at closing

Foreign Keys 2

Name	Columns	Delete Rule	Update Rule
auction_id_winner_foreign	id_user	N/S	N/S
auction_item_id_seller_foreign	id_user	N/S	N/S

SQL Script

```
CREATE TABLE auctions (
  id_auction int UNSIGNED NOT NULL AUTO_INCREMENT,
  title varchar(255) NOT NULL,
  description varchar(2048) NOT NULL,
  id_seller int UNSIGNED NOT NULL,
  start_price decimal(10, 2) NOT NULL,
  start_date datetime NOT NULL,
  end_date datetime NOT NULL,
  overtime int NOT NULL DEFAULT 0,
  status enum ('at_auction', 'sold', 'not_issued') NOT NULL,
  id_winner int UNSIGNED DEFAULT NULL,
  PRIMARY KEY (id_auction)
```

```
)
ENGINE = INNODB,
CHARACTER SET utf8mb4,
COLLATE utf8mb4_0900_ai_ci;

ALTER TABLE auctions
ADD CONSTRAINT auction_id_winner_foreign FOREIGN KEY (id_winner)
REFERENCES users (id_user);

ALTER TABLE auctions
ADD CONSTRAINT auction_item_id_seller_foreign FOREIGN KEY (id_seller)
REFERENCES users (id_user);
```

Depends On ❶

⊞ users

Used By ❸

⊞ auction_price_history

⊞ categorie_auction

⊞ photos_item

⊞ categorie_auction

Description

Table that connects auctions and categories in a many-to-many relationship

Columns ❷

Key	Name	Data Type	Length	Precision	Scale	Unsigned	Zerofill	Binary	Not Null	Auto Increment	Default	Virtual	Invisible	Description
🔑⚷⊞	id_category	INT		11		True	False	False	True	False		False	False	Composite foreign key referencing the associated category
🔑⚷⊞❷	id_auction	INT		11		True	False	False	True	False		False	False	Composite foreign key referencing the associated auction

Foreign Keys ❷

Name	Columns	Delete Rule	Update Rule
ci_id_auction_foreign	id_auction	N/S	N/S
ci_id_cat_foreign	id_category	N/S	N/S

SQL Script

```sql
CREATE TABLE categorie_auction (
  id_category int UNSIGNED NOT NULL,
  id_auction int UNSIGNED NOT NULL,
  PRIMARY KEY (id_category, id_auction)
)
ENGINE = INNODB,
CHARACTER SET utf8mb4,
COLLATE utf8mb4_0900_ai_ci;

ALTER TABLE categorie_auction
ADD CONSTRAINT ci_id_auction_foreign FOREIGN KEY (id_auction)
REFERENCES auctions (id_auction);

ALTER TABLE categorie_auction
ADD CONSTRAINT ci_id_cat_foreign FOREIGN KEY (id_category)
REFERENCES categories (id_category);
```

Depends On ❷

⊞ auctions
⊞ categories

⊞ categories

Description

Table defining auction item classification groups

Columns ❷

Key	Name	Data Type	Length	Precision	Scale	Unsigned	Zerofill	Binary	Not Null	Auto Increment	Default	Virtual	Invisible	Description
🔑🔗	id_category	INT		11		True	False	False	True	True		False	False	Identifier for the classification category
	category_name	VARCHAR	255			False	False	False	True	False		False	False	Category name

SQL Script

```sql
CREATE TABLE categories (
  id_category int UNSIGNED NOT NULL AUTO_INCREMENT,
  category_name varchar(255) NOT NULL,
  PRIMARY KEY (id_category)
)
ENGINE = INNODB,
CHARACTER SET utf8mb4,
COLLATE utf8mb4_0900_ai_ci;
```

Used By ❶

⊞ categorie_auction

⊞ photos_item

Description

Table for managing photos related to specific auctions

Columns ④

Key	Name	Data Type	Length	Precision	Scale	Unsigned	Zerofill	Binary	Not Null	Auto Increment	Default	Virtual	Invisible	Description
🔑🖧	id_photo	INT		11		True	False	False	True	True		False	False	Identifier for the image record
🔑🖧	id_auction	INT		11		True	False	False	True	False		False	False	Foreign key linking the media asset to a specific auction
	photo	VARCHAR	512			False	False	False	True	False		False	False	Path to the photo file
	is_main_photo	TINYINT		1		False	False	False	True	False	'0'	False	False	Boolean flag designating the primary image

Foreign Keys ①

Name	Columns	Delete Rule	Update Rule
photos_item_id_auction_foreign	id_auction	N/S	N/S

SQL Script

```sql
CREATE TABLE photos_item (
  id_photo int UNSIGNED NOT NULL AUTO_INCREMENT,
  id_auction int UNSIGNED NOT NULL,
  photo varchar(512) NOT NULL,
  is_main_photo tinyint(1) NOT NULL DEFAULT 0,
  PRIMARY KEY (id_photo)
)
ENGINE = INNODB,
CHARACTER SET utf8mb4,
COLLATE utf8mb4_0900_ai_ci;

ALTER TABLE photos_item
ADD CONSTRAINT photos_item_id_auction_foreign FOREIGN KEY (id_auction)
REFERENCES auctions (id_auction);
```

Depends On ①

⊞ auctions

⊞ users

Description

Table storing user information and authentication data for all registered participants in the system.

Columns ❼

Key	Name	Data Type	Length	Precision	Scale	Unsigned	Zerofill	Binary	Not Null	Auto Increment	Default	Virtual	Invisible	Description
🔑	id_user	INT		11		True	False	False	True	True		False	False	Unique user ID
	first_name	VARCHAR	64			False	False	False	True	False		False	False	User name
	last_name	VARCHAR	64			False	False	False	True	False		False	False	User last name
🔗	email	VARCHAR	128			False	False	False	True	False		False	False	User email
	password	VARCHAR	1024			False	False	False	True	False		False	False	Encrypted user password
	phone_number	VARCHAR	20			False	False	False	True	False		False	False	User's phone number
	create_account_date	DATETIME		0		False	False	False	True	False	CURRENT_TIMESTAMP	False	False	Account creation date

SQL Script

```
CREATE TABLE users (
  id_user int UNSIGNED NOT NULL AUTO_INCREMENT,
  first_name varchar(64) NOT NULL,
  last_name varchar(64) NOT NULL,
  email varchar(128) NOT NULL,
  password varchar(1024) NOT NULL,
  phone_number varchar(20) NOT NULL,
  create_account_date datetime NOT NULL DEFAULT CURRENT_TIMESTAMP,
  PRIMARY KEY (id_user)
)
ENGINE = INNODB,
CHARACTER SET utf8mb4,
COLLATE utf8mb4_0900_ai_ci;

ALTER TABLE users
ADD UNIQUE INDEX email (email);
```

Used By ❷

⊞ auction_price_history
⊞ auctions