

A decorative graphic on the right side of the page. It features three blue circles of different sizes, each composed of concentric rings of varying shades of blue. Two thin blue lines intersect at the top left, forming a large 'V' shape that frames the circles. The circles are positioned at the top right, middle right, and bottom right of the page.

# CS4313

## Deliverable 2

All Database tables

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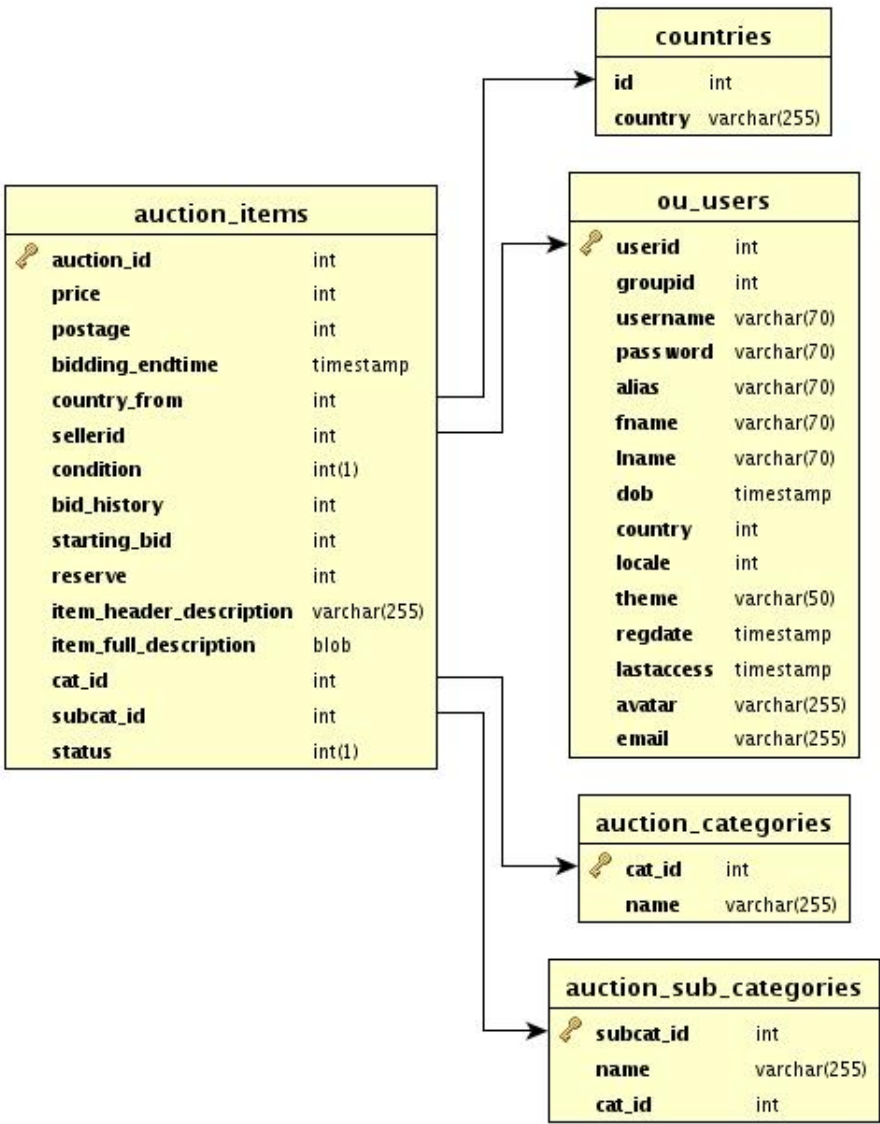
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# Database

## Tables

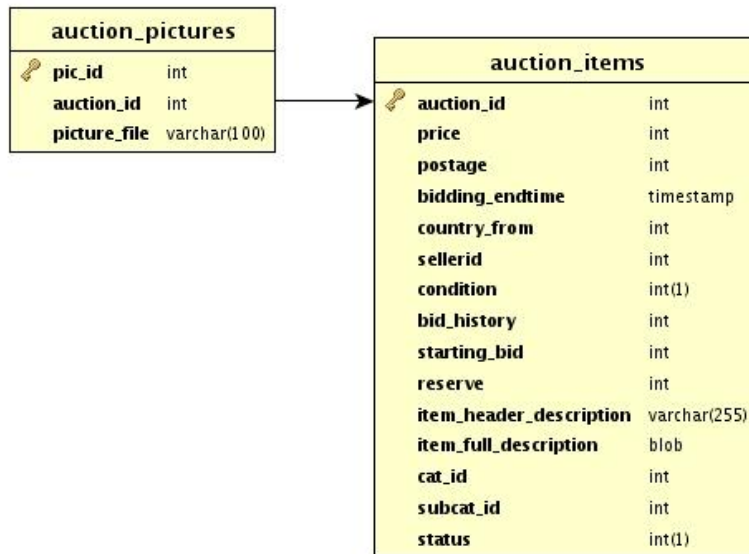
### Auction items



## SQL

```
CREATE TABLE auction_items (  
  auction_id int(11) NOT NULL AUTO_INCREMENT,  
  price int(11) NOT NULL,  
  postage int(11) NOT NULL,  
  bidding_endtime timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP,  
  country_from int(11) NOT NULL,  
  sellerid int(11) NOT NULL,  
  `condition` int(1) NOT NULL,  
  bid_history int(11) NOT NULL,  
  starting_bid int(11) NOT NULL,  
  reserve int(11) NOT NULL,  
  item_header_description varchar(255) NOT NULL,  
  item_full_description blob NOT NULL,  
  cat_id int(11) NOT NULL,  
  subcat_id int(11) NOT NULL,  
  `status` int(1) NOT NULL,  
  PRIMARY KEY (auction_id),  
  KEY country_from (country_from),  
  KEY sellerid (sellerid),  
  KEY cat_id (cat_id),  
  KEY subcat_id (subcat_id)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

## Auction pictures



## SQL

```
CREATE TABLE auction_pictures (  
  pic_id int(11) NOT NULL AUTO_INCREMENT,  
  auction_id int(11) NOT NULL,  
  picture_file varchar(100) NOT NULL,  
  PRIMARY KEY (pic_id),  
  KEY auction_id (auction_id)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
$salt = microtime(); // unix timestamp + microseconds  
$picture_file= $salt . $_FILES['uploadedfile']['name']; // unique enough?
```

We want to keep the file extension ( MIME types ), using a number will assume all upload with be same extension.

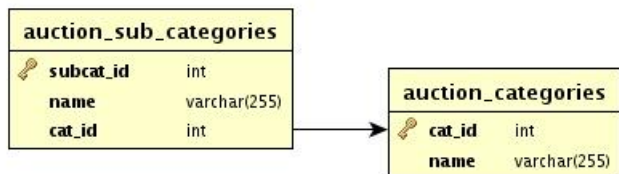
## Auction categories



## SQL

```
CREATE TABLE `auction_categories` (  
  `cat_id` int(11) NOT NULL AUTO_INCREMENT,  
  `name` varchar(255) NOT NULL,  
  PRIMARY KEY (`cat_id`)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO_INCREMENT=1 ;
```

## Auction sub categories



## SQL

```
CREATE TABLE `auction_sub_categories` (  
  `subcat_id` int(11) NOT NULL AUTO_INCREMENT,  
  `name` varchar(255) NOT NULL,  
  `cat_id` int(11) NOT NULL,  
  PRIMARY KEY (`subcat_id`),  
  KEY `cat_id` (`cat_id`)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO_INCREMENT=1 ;
```

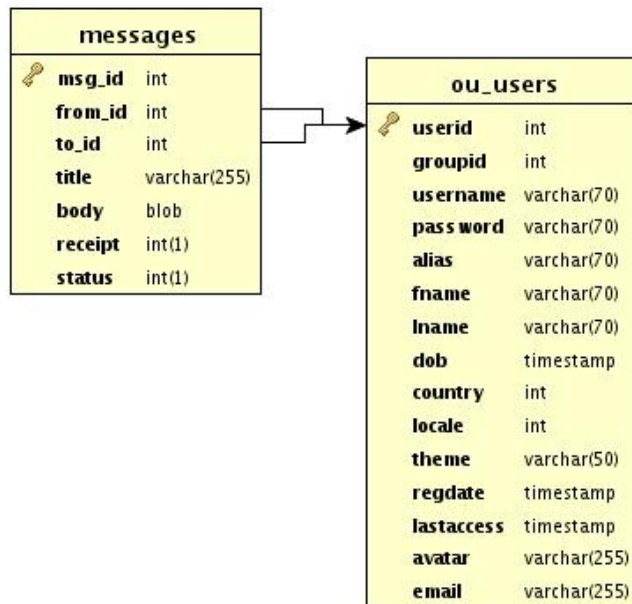
## Item searching



## SQL

```
CREATE TABLE `item_searching` (  
  `id` int(11) NOT NULL AUTO_INCREMENT,  
  `term` varchar(255) NOT NULL,  
  PRIMARY KEY (`id`)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO_INCREMENT=1 ;
```

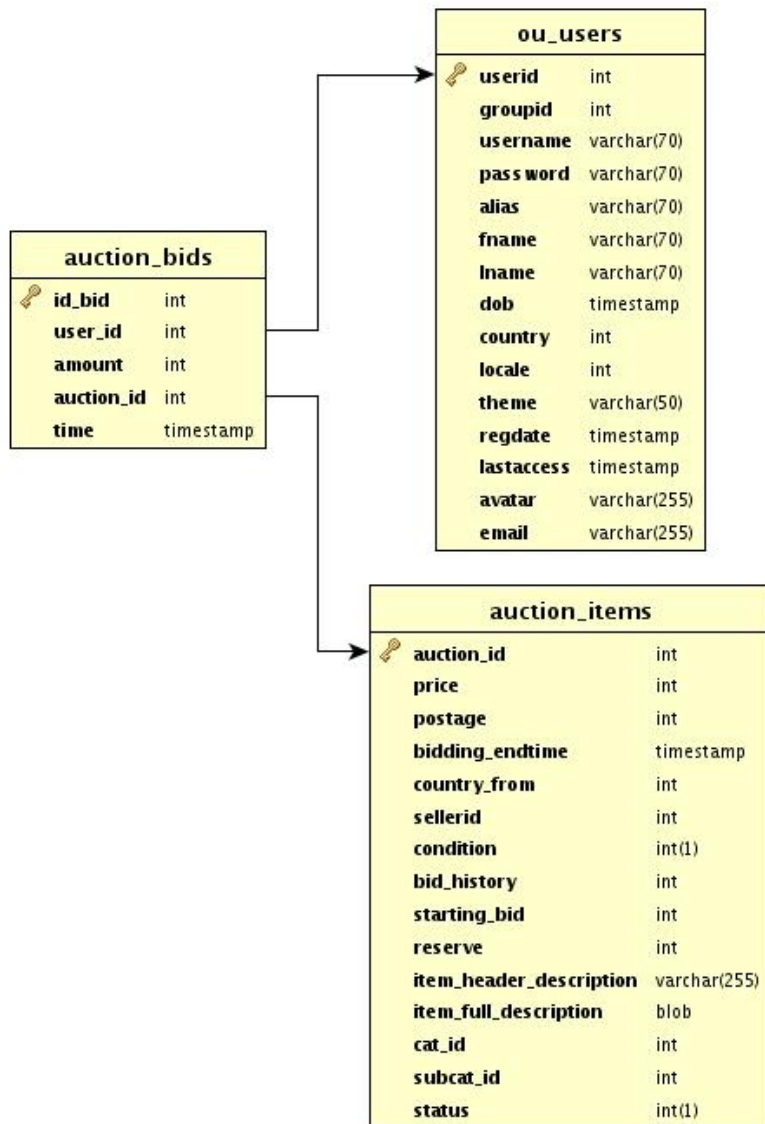
## Messages



## SQL

```
CREATE TABLE `messages` (  
  `msg_id` int(11) NOT NULL AUTO_INCREMENT,  
  `from_id` int(11) NOT NULL,  
  `to_id` int(11) NOT NULL,  
  `title` varchar(255) NOT NULL,  
  `body` blob NOT NULL,  
  `receipt` int(1) NOT NULL,  
  `status` int(1) NOT NULL,  
  PRIMARY KEY (`msg_id`),  
  KEY `from_id` (`from_id`),  
  KEY `to_id` (`to_id`)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO_INCREMENT=1 ;
```

## Auction Bids

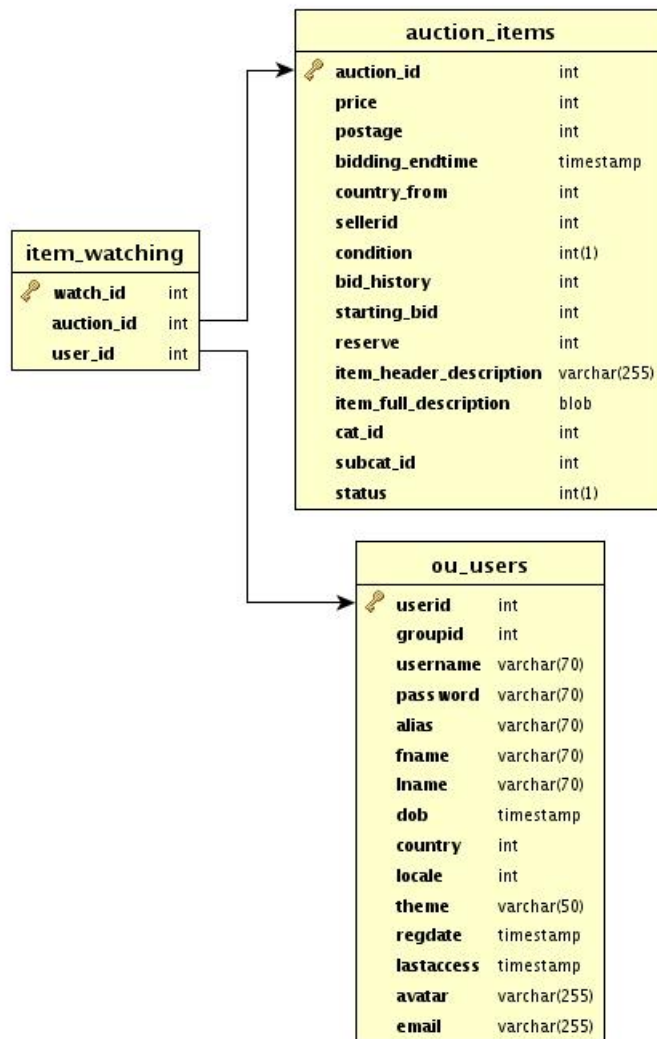


## SQL

```
CREATE TABLE auction_bids (  
  id_bid int(11) NOT NULL AUTO_INCREMENT,  
  user_id int(11) NOT NULL,  
  amount int(11) NOT NULL,  
  auction_id int(11) NOT NULL,  
  `time` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP,  
  PRIMARY KEY (id_bid),  
  KEY auction_id (auction_id),  
  KEY user_id (user_id)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```



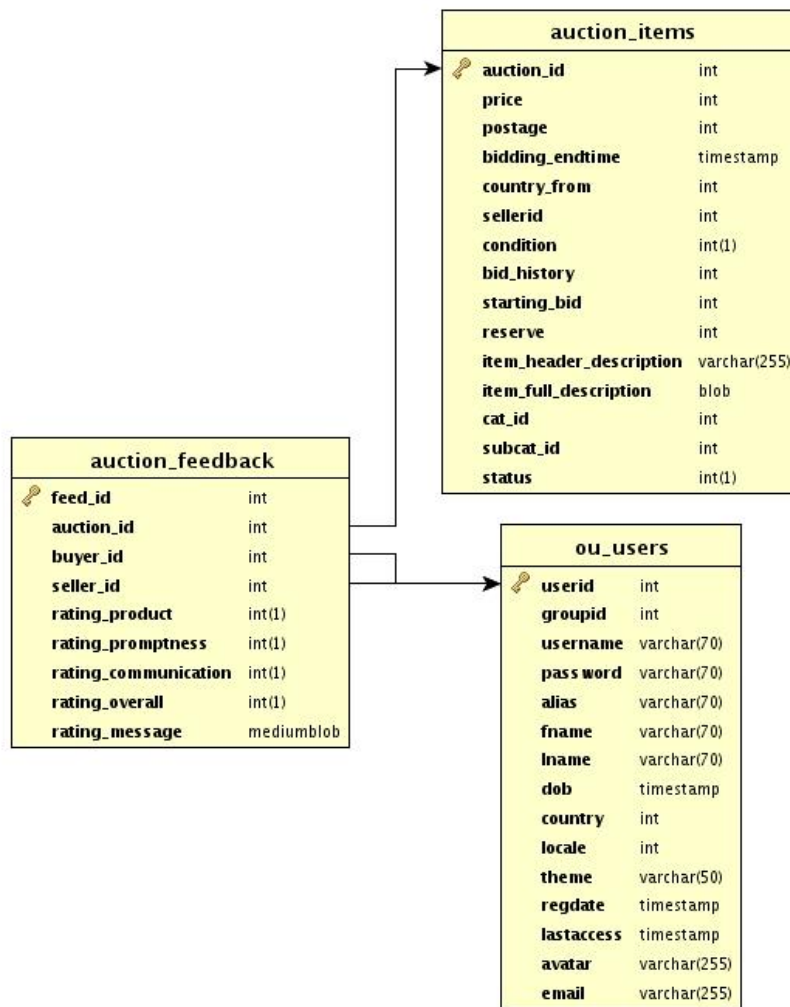
## Item watching



## SQL

```
CREATE TABLE `item_watching` (  
  `watch_id` int(11) NOT NULL AUTO_INCREMENT,  
  `auction_id` int(11) NOT NULL,  
  `user_id` int(11) NOT NULL,  
  PRIMARY KEY (`watch_id`),  
  KEY `auction_id` (`auction_id`),  
  KEY `user_id` (`user_id`)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO_INCREMENT=1 ;
```

## Auction feedback

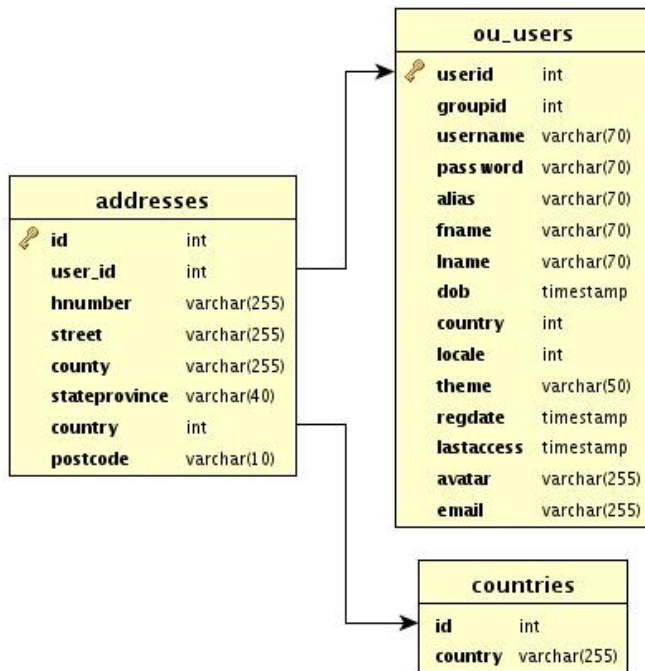


## SQL

```

CREATE TABLE `auction_feedback` (
  `feed_id` int(11) NOT NULL AUTO_INCREMENT,
  `auction_id` int(11) NOT NULL,
  `buyer_id` int(11) NOT NULL,
  `seller_id` int(11) NOT NULL,
  `rating_product` int(1) NOT NULL,
  `rating_promptness` int(1) NOT NULL,
  `rating_communication` int(1) NOT NULL,
  `rating_overall` int(1) NOT NULL,
  `rating_message` mediumblob NOT NULL,
  PRIMARY KEY (`feed_id`),
  KEY `auction_id` (`auction_id`),
  KEY `buyer_id` (`buyer_id`),
  KEY `seller_id` (`seller_id`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO_INCREMENT=1 ;
  
```

## Addresses

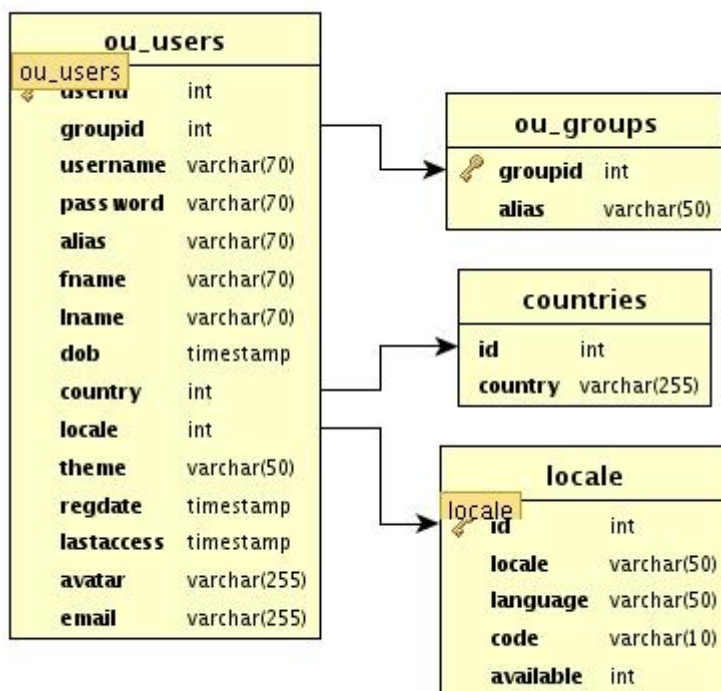


## SQL

```

CREATE TABLE `addresses` (
  `id` int(11) NOT NULL AUTO_INCREMENT,
  `user_id` int(11) NOT NULL,
  `hnumber` varchar(255) NOT NULL,
  `street` varchar(255) NOT NULL,
  `county` varchar(255) NOT NULL,
  `stateprovince` varchar(40) NOT NULL,
  `country` int(11) NOT NULL,
  `postcode` varchar(10) NOT NULL,
  PRIMARY KEY (`id`),
  KEY `user_id` (`user_id`),
  KEY `country` (`country`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO_INCREMENT=1 ;
  
```

## OU users



## SQL

```
CREATE TABLE ou_users (
  userid int(11) NOT NULL AUTO_INCREMENT,
  groupid int(11) NOT NULL,
  username varchar(70) NOT NULL,
  `password` varchar(70) NOT NULL,
  alias varchar(70) NOT NULL,
  fname varchar(70) NOT NULL,
  lname varchar(70) NOT NULL,
  dob timestamp NOT NULL DEFAULT '0000-00-00 00:00:00',
  country int(11) NOT NULL,
  locale int(11) NOT NULL,
  theme varchar(50) NOT NULL,
  regdate timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP,
  lastaccess timestamp NOT NULL DEFAULT '0000-00-00 00:00:00',
  avatar varchar(255) NOT NULL,
  email varchar(255) NOT NULL,
  PRIMARY KEY (userid),
  KEY groupid (groupid),
  KEY country (country),
  KEY locale (locale)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

## OU groups

ou_groups	
 <b>groupid</b>	int
<b>alias</b>	varchar(50)

## SQL

```
CREATE TABLE `ou_groups` (  
  `groupid` int(11) NOT NULL AUTO_INCREMENT,  
  `alias` varchar(50) NOT NULL,  
  PRIMARY KEY (`groupid`)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO_INCREMENT=7 ;
```


## Countries

countries	
<b>id</b>	int
<b>country</b>	varchar(255)

## SQL

```
CREATE TABLE `countries` (  
  `id` int(11) NOT NULL,  
  `country` varchar(255) NOT NULL,  
  KEY `id` (`id`)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

## Locale

locale	
 <b>id</b>	int
<b>locale</b>	varchar(50)
<b>language</b>	varchar(50)
<b>code</b>	varchar(10)
<b>available</b>	int

## SQL

```
CREATE TABLE `locale` (  
  `id` int(11) NOT NULL AUTO_INCREMENT,  
  `locale` varchar(50) NOT NULL,  
  `language` varchar(50) NOT NULL,  
  `code` varchar(10) NOT NULL,  
  `available` int(11) NOT NULL,  
  PRIMARY KEY (`id`)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO_INCREMENT=93 ;
```

## Referential Integrity Constraints

### SQL

```
ALTER TABLE `addresses`  
  ADD CONSTRAINT addresses_ibfk_1 FOREIGN KEY (user_id) REFERENCES ou_users (userid),  
  ADD CONSTRAINT addresses_ibfk_2 FOREIGN KEY (country) REFERENCES countries (id);  
  
ALTER TABLE `auction_bids`  
  ADD CONSTRAINT auction_bids_ibfk_1 FOREIGN KEY (user_id) REFERENCES ou_users (userid),  
  ADD CONSTRAINT auction_bids_ibfk_2 FOREIGN KEY (auction_id) REFERENCES auction_items (auction_id);  
  
ALTER TABLE `auction_feedback`  
  ADD CONSTRAINT auction_feedback_ibfk_1 FOREIGN KEY (auction_id) REFERENCES auction_items  
(auction_id),  
  ADD CONSTRAINT auction_feedback_ibfk_2 FOREIGN KEY (buyer_id) REFERENCES ou_users (userid),  
  ADD CONSTRAINT auction_feedback_ibfk_3 FOREIGN KEY (seller_id) REFERENCES ou_users (userid);  
  
ALTER TABLE `auction_items`  
  ADD CONSTRAINT auction_items_ibfk_1 FOREIGN KEY (country_from) REFERENCES countries (id),  
  ADD CONSTRAINT auction_items_ibfk_2 FOREIGN KEY (sellerid) REFERENCES ou_users (userid),  
  ADD CONSTRAINT auction_items_ibfk_3 FOREIGN KEY (cat_id) REFERENCES auction_categories (cat_id),  
  ADD CONSTRAINT auction_items_ibfk_4 FOREIGN KEY (subcat_id) REFERENCES auction_sub_categories  
(subcat_id);  
  
ALTER TABLE `auction_pictures`  
  ADD CONSTRAINT auction_pictures_ibfk_1 FOREIGN KEY (auction_id) REFERENCES auction_items  
(auction_id);  
  
ALTER TABLE `auction_sub_categories`  
  ADD CONSTRAINT auction_sub_categories_ibfk_1 FOREIGN KEY (cat_id) REFERENCES auction_categories  
(cat_id);  
  
ALTER TABLE `item_watching`  
  ADD CONSTRAINT item_watching_ibfk_1 FOREIGN KEY (auction_id) REFERENCES auction_items  
(auction_id),  
  ADD CONSTRAINT item_watching_ibfk_2 FOREIGN KEY (user_id) REFERENCES ou_users (userid);  
  
ALTER TABLE `messages`  
  ADD CONSTRAINT messages_ibfk_1 FOREIGN KEY (from_id) REFERENCES ou_users (userid),  
  ADD CONSTRAINT messages_ibfk_2 FOREIGN KEY (to_id) REFERENCES ou_users (userid);  
  
ALTER TABLE `ou_users`  
  ADD CONSTRAINT ou_users_ibfk_1 FOREIGN KEY (groupid) REFERENCES ou_groups (groupid),  
  ADD CONSTRAINT ou_users_ibfk_2 FOREIGN KEY (country) REFERENCES countries (id),  
  ADD CONSTRAINT ou_users_ibfk_3 FOREIGN KEY (locale) REFERENCES locale (id);
```

## Overview

### Relations Overview

