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| **CS4313** |
| Deliverable 2 |
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| All Database tables |
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| **David O Neill 0813001** |
| **James McHugh 0052833** |
| **Keiran Duggan 0866504** |
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| **12/3/2010** |
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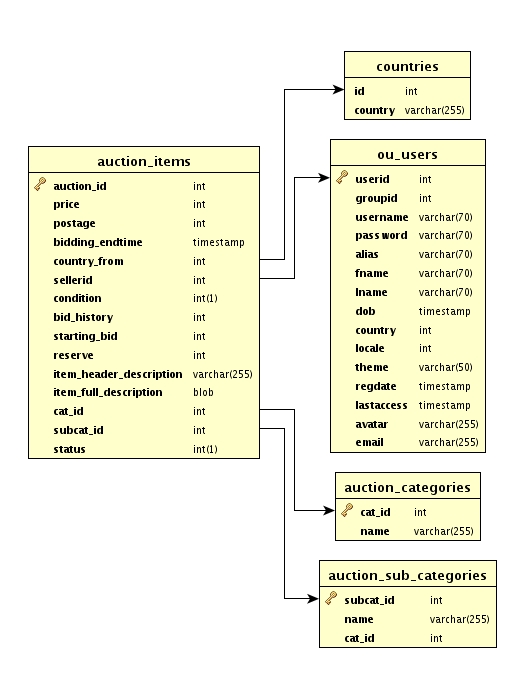
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# Database

## 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),

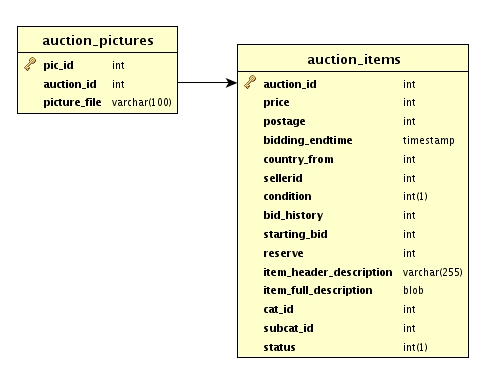
KEY sellerid (sellerid),

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)

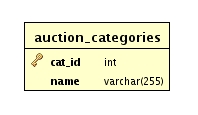
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

$salt = microtime(); // unix timestamp + microsseconds

$picure\_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` (

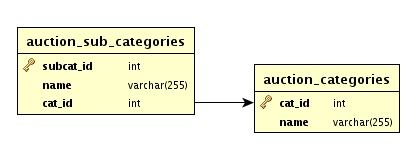
`cat\_id` int(11) NOT NULL AUTO\_INCREMENT,

`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,

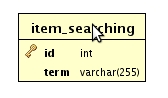
`cat\_id` int(11) NOT NULL,

PRIMARY KEY (`subcat\_id`),

KEY `cat\_id` (`cat\_id`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO\_INCREMENT=1 ;

### Item searching



#### SQL

CREATE TABLE `item\_searching` (

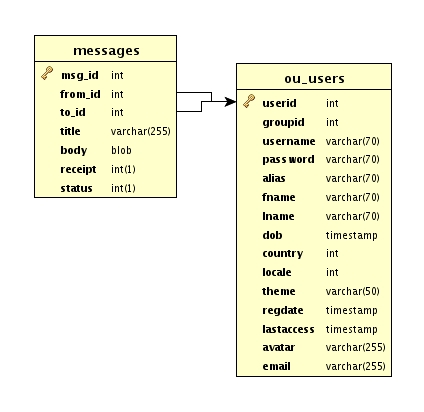
`id` int(11) NOT NULL AUTO\_INCREMENT,

`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,

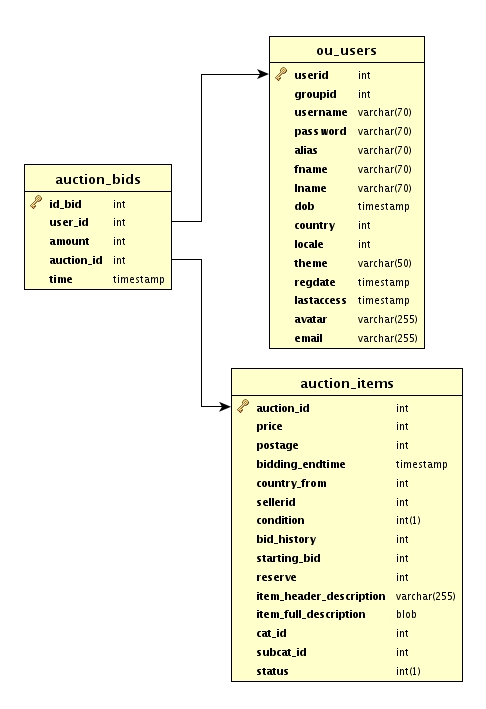
PRIMARY KEY (`msg\_id`),

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,

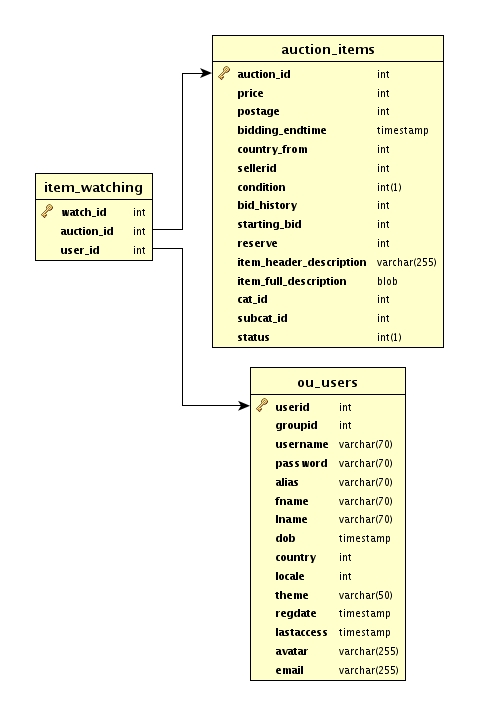
PRIMARY KEY (id\_bid),

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,

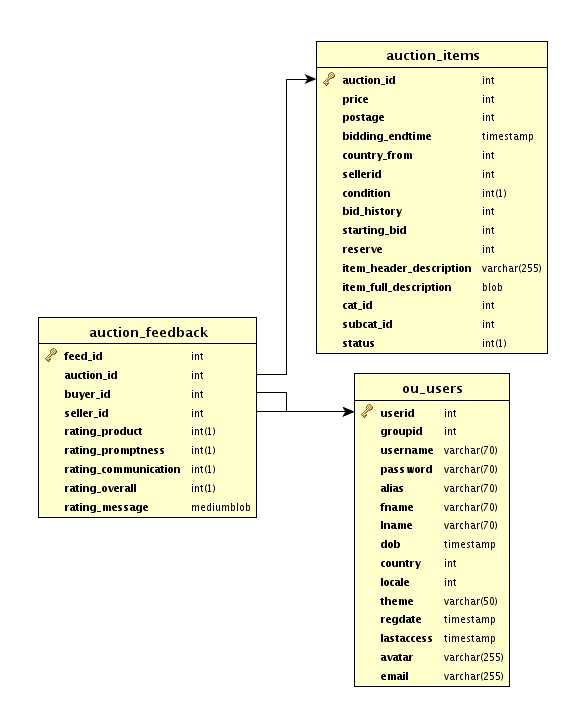
PRIMARY KEY (`watch\_id`),

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`),

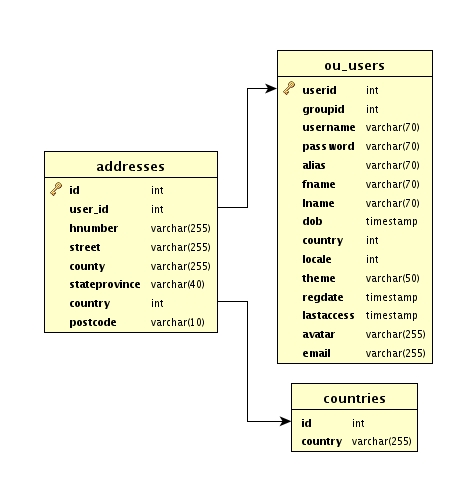
KEY `auction\_id` (`auction\_id`),

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,

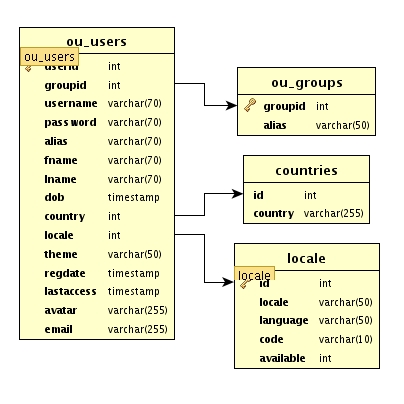
PRIMARY KEY (`id`),

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



#### SQL

CREATE TABLE `ou\_groups` (

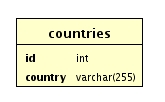
`groupid` int(11) NOT NULL AUTO\_INCREMENT,

`alias` varchar(50) NOT NULL,

PRIMARY KEY (`groupid`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO\_INCREMENT=7 ;

### Countries



#### SQL

CREATE TABLE `countries` (

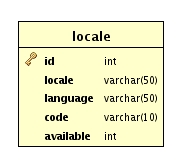
`id` int(11) NOT NULL,

`country` varchar(255) NOT NULL,

KEY `id` (`id`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

### Locale



#### 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

