

Background.

A company called LIT Realty has recently been formed in Limerick and has decided to base itself in the industry incubation centre in LIT's Moylish Park campus. LIT Realty sell property all over Ireland and currently advertise their properties in the national press. To facilitate these advertisements, LIT Realty have developed a complete database of their properties and their selling agents.

There are *five* tables with the LITRealty Database, however your work today will only require you to use three of them – the *properties*, *agents* and *styles* tables.

litrealty.agents	litrealty.properties
agentId : int(11)	id : int(11)
name : varchar(50)	street : varchar(50)
phone : varchar(12)	city : varchar(25)
fax : varchar(12)	listingNum : int(11)
email : varchar(50)	styleId : int(11)
username : varchar(50)	typeId : int(11)
password : text	bedrooms : int(11)
agentImage : varchar(15)	bathrooms : float
	squarefeet : int(11)
	berRating : varchar(2)
	description : text
	lotsize : varchar(25)
	garagesize : tinyint(4)
	garageId : int(11)
	agentId : int(11)
	photo : varchar(50)
	price : double
	dateAdded : date

The records contained within the agent table are as follows:

agentId	name	phone	fax	email	username	password	agentImage
1	Sue Roberts	555-1234	555-9876	sue@homesellers.com	Sue.Roberts	suepass	1.jpg
2	Natasha Watkins	555-1357	555-9876	tasha@homesellers.com	Natasha.Watkins	natashapass	2.jpg
3	Chris Clarkson	555-2468	555-6767	chris@homesellers.com	Chris.Clarkson	chrispass	3.jpg
4	Laura Blain	555-9898	555-6767	laura@homesellers.com	Laura.Blain	laurapass	4.jpg
5	Dave Lindale	555-8833	555-9876	dave@homesellers.com	Dave.Lindale	davepass	5.jpg

Some sample records contained within the properties table are as follows:

id	street	city	listingNum	styleId	typeId	bedrooms	bathrooms	squarefeet	berRating	description	lotsize	garagesize	garageId	agentId	photo	price	dateAdded
12	8 Ashwood, Seacrest, Shangort Road, Knocknacarra	Galway	128365	1	1	2	1	1200	C1	A wonderful 2 bedroom semi detached bungalow locat...	60x90	1	1	4	128365.jpg	93900	2016-08-11
22	65 Sarsfield Terrace, Off Richmond Hill	Cork	132927	2	5	5	1.5	1750	D1	Quality 10-year old home in a great location. Com...	100x100	2	1	2	132927.jpg	132900	2016-09-14
27	The Crescent, Kilminchy	Portlaoise	141036	2	2	4	2	1400	B1	LIT Realty is pleased to welcome this property to ...	60x60	2	1	4	141036.jpg	159900	0000-00-00
10	35 Na Cluainte	Portllington	141136	2	2	3	2	1700	B2	Ideal for first time buyer/investor.This three bed...	70x250	2	1	1	141136.jpg	203500	2016-09-12
3	12 Killard, Kilteragh, Dooradoyle	Limerick	182625	2	2	6	4	2500	C2	We are delighted to bring this spacious semi-detac...	80x120	1	2	4	182625.jpg	149000	2016-09-07
17	St Annes Road, Nr. McSwiney Villas, Gurrabraher	Cork	197681	5	1	3	1.5	1650	F	This two bedroom mid terrace extended property is ...	100x110	2	1	1	197681.jpg	159500	2016-09-07
7	33 Beaumont Road, Beaumont	Dublin 9	281903	2	3	4	0	3800	B3	This property has been well maintained and is in l...	80x120	0	4	5	281903.jpg	599900	2016-11-07
6	31 Francis Terrace	Kilkenny	288644	5	1	3	1	1300	A3	A five minute stroll will take you from the front ...	120x150	0	4	3	288644.jpg	103900	2016-06-22
24	4 Portobello Road, Portobello	Dublin 8	335965	4	1	3	1.5	1900	0	This house has recently undergone	80x110	2	1	3	335965.jpg	145900	2016-09-20

The records contained within the styles table are as follows:

styleId	pStyle
1	Bungalow
2	Semi Detached
3	Detached
4	Cottage
5	Terrace
8	Duplex
9	Condo
10	Apartment
11	Other

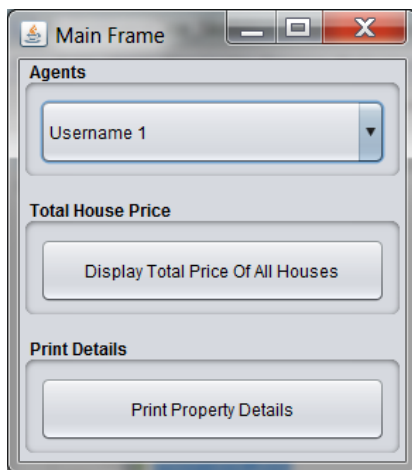
The script for the database is available for download from Moodle (note: this script contains a DB structure that is slightly different from the LITRealty database you have previously worked with).

To Do:

Download the skeleton Netbeans project from Moodle.

When you open it up you will see there are two JFrames within it.

The Main Frame



The Agent Details Frame



Task One (50%).

Populate the *agentsComboBox* with the **user name** of each agent in the *Agents* table. This information is obviously to come from the database and you must not directly hardcode it into your program.

When the user selects a user name from the combobox, your program will display the Agent Details Frame. This frame will display the relevant details for the selected agent (including their photograph). The photographs for each agent are supplied in the downloadable Netbeans project.

Clicking “Go Back” will hide this frame and redisplay the Main Frame.

Task Two (20%).

When the user clicks on the “Display Total Price Of All Houses” button, display in a message dialog, the total price for all properties in the properties table. This should be formatted based on the following formatting (€xxx,xxx.xx).

Task Three (30%).

When the user clicks on the “Print Property Details” button, display a message dialog with a *JTextArea* embedded with it (the code for this is provided for you). The *JTextArea* is to display the following details for each property that is the responsibility of the selected agent in the combo box.

- Property ID.
- Street.
- City.
- Number of bathrooms.
- Number of bedrooms.
- Price (all from the properties table)
- Property Style (from the styles table).

Each property must appear on a new line in the textarea, must be neatly displayed and must be sorted on the date the property was added to the database (in ascending order).