MySQL Assignment Query output results

1) Find the addresses of all houses currently listed.

```
SELECT Listings.address
FROM Listings, House
WHERE Listings.address = House.address;
```

address
263 Summer Rd
7075 Winding Way St
7385 Boston St
805 West Silver Spear Ave
8528 Maple Road
8878 Essex St

2) Find the addresses and MLS numbers of all houses currently listed.

```
Select Listings.address, Listings.mlsNumber
From Listings, House
Where Listings.address = House.address;
```

address	mlsNumber
263 Summer Rd	6288
7075 Winding Way St	3166
7385 Boston St	7068
805 West Silver Spear Ave	8455
8528 Maple Road	7544
8878 Essex St	1266

3) Find the addresses of all 3-becroom, 2-bathroom houses currently listed.

```
SELECT Listings.address
FROM Listings, House
WHERE Listings.address = House.address AND House.bedrooms = 3 AND House.bathrooms = 2;
```
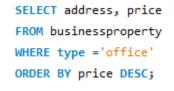
address
8878 Essex St
7075 Winding Way St

4) Find the addresses and prices of all 3-bedroom, 2-bathroom houses with prices in the range $100,000 to $250,000, with the results shown in descending order of price.

```sql
SELECT address, price
FROM House
WHERE bedrooms = 3 AND bathrooms = 2 AND price >= 100000 AND price <= 250000
ORDER BY price DESC;
```

address	price
8878 Essex St	249999
7075 Winding Way St	224324

5) Find the addresses and prices of all business properties that are advertised as office space in descending order of price.

```sql
SELECT address, price
FROM businessproperty
WHERE type ='office'
ORDER BY price DESC;
```

address	price
781 Essex Avenue	810268
9640 Woodsman Rd	580854

6) Find all the ids, names and phones of all agents, together with the names of their firms and the dates when they started.

```
SELECT agentId, Agent.name, phone, Firm.name, dateStarted
FROM Agent, Firm
WHERE Agent.firmId = Firm.id;
```

agentId	name	phone	name	dateStarted
149	Kunti Helene	4940784000	Target	1998-01-14
208	Heraclitus Tomomi	7502546427	Target	2002-11-03
147	Christiana Octavia	8791263105	Walmart	2011-10-17
187	Linn Yvo	3442796466	Walmart	1999-12-23
13	Vahagn Alkiviadis	6487686450	Facebook	2005-07-21
825	Sundar Meadhbh	7190790002	Facebook	2018-10-19
122	Prasad Dragos	9450581907	ChickFila	2010-01-19
190	Meiriona Ceolmund	6798248089	ChickFila	2014-09-08
117	Unice Odo	4499059842	Twitter	1997-02-14
347	Matleena Per	3911636827	Twitter	2016-04-22
235	Higuel Tatiana	3734088408	Amazon	2003-01-17
250	Wahunsenacawh ...	1323799357	Amazon	1998-05-03

7) Find all the properties currently listed by agent with id "001" (or some other suitable id).

* I used agentId = 147 here

```
SELECT property.*
FROM property, listings
WHERE property.address = Listings.address AND listings.agentId = 147;
```

address	ownerName	price
9422 Devon St	Uma August	825065

8) Find all Agent.name-Buyer.name pairs where the buyer works with the agent, sorted
alphabetically by Agent.name.

```
SELECT Agent.name AS Agent_Name, Buyer.name AS Buyer_Name
FROM agent, buyer, works_with
WHERE agent.agentId = works_with.agentID AND buyer.id = works_with.buyerId
ORDER BY Agent_Name;
```

Agent_Name	Buyer_Name
Christiana Octavia	Anselm Gawain
Heraclitus Tomomi	Etsuko Thyge
Linn Yvo	Vincent Vadimir
Matleena Per	Asterix Mato
Prasad Dragos	Lilias Mohammad
Vahagn Alkiviadis	Jordana Wulfwynn

9) For each agent, find the total number of buyers currently working with that agent, i.e., the output
should be Agent.id-count pairs.

```
SELECT DISTINCT agent.agentId, (SELECT COUNT(works_with.buyerId) FROM works_with WHERE agent.agentID = works_with.agentID) AS "Agent.id-count pairs"
FROM agent, buyer, works_with
WHERE works_with.agentID = agent.agentId AND works_with.buyerId = buyer.id;
```

agentId	Agent.id-count pairs
13	1
208	1
122	1
347	1
187	1
147	1

10) For some buyer that is interested in a house, where the buyer is identified by an id (e.g., "001"),

find all houses that meet the buyer's preferences, with the results shown in descending order of

price.

*I used buyer Id of 9574

```sql
SELECT house.*
FROM house, buyer
WHERE buyer.id = 9574 AND
    buyer.bedrooms = house.bedrooms AND
    buyer.bathrooms = house.bathrooms AND
    buyer.minimumPreferredPrice <= house.price AND
    buyer.maximumPreferredPrice >= house.price
ORDER BY house.price DESC;
```

	bedrooms	bathrooms	size	address	ownerName	price
▶	3	2	2000	8878 Essex St	Rama Gustav	249999
	3	2	3000	7075 Winding Way St	Julita Onyekachi	224324