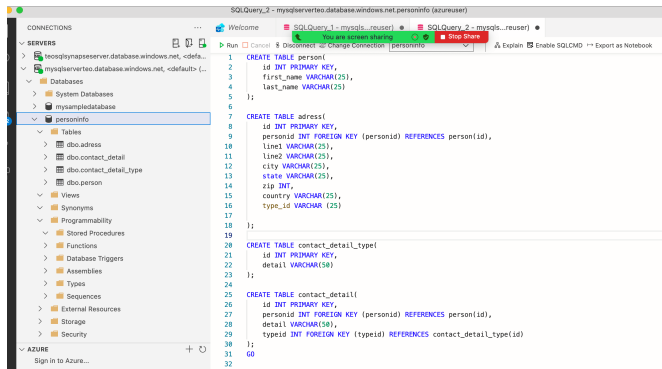


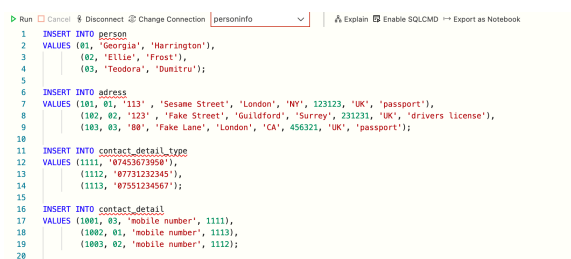
# Problem 7

For problem 7 we had to create a new database that contains 4 tables

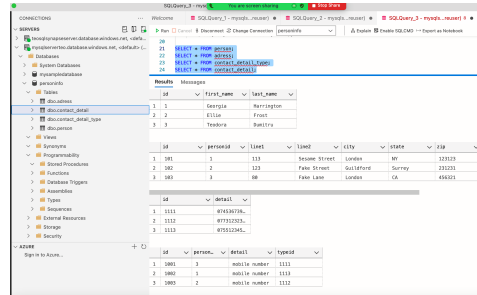


```
SQLQuery_3 - mysqserverteio.database.windows.net.personinfo (azureuser)
1 CREATE TABLE person
2   (id INT PRIMARY KEY,
3    first_name VARCHAR(25),
4    last_name VARCHAR(25))
5
6 CREATE TABLE address
7   (id INT PRIMARY KEY,
8    personid INT FOREIGN KEY (personid) REFERENCES person(id),
9    line1 VARCHAR(25),
10   line2 VARCHAR(25),
11   city VARCHAR(25),
12   state VARCHAR(25),
13   zip INT,
14   country VARCHAR(25),
15   type_id VARCHAR (25))
16
17 CREATE TABLE contact_detail_type
18   (id INT PRIMARY KEY,
19   detail VARCHAR(50))
20
21 CREATE TABLE contact_detail
22   (id INT PRIMARY KEY,
23   personid INT FOREIGN KEY (personid) REFERENCES person(id),
24   detail VARCHAR(50),
25   typeid INT FOREIGN KEY (typeid) REFERENCES contact_detail_type(id))
26
27
28
29
30
31
32
```

## Insert data into the tables



```
1 INSERT INTO person
2 VALUES (01, 'Georgia', 'Harrington'),
3         (02, 'Ellie', 'Frost'),
4         (03, 'Teodora', 'Dumitru');
5
6 INSERT INTO address
7 VALUES (101, 01, '113', 'Sesame Street', 'London', 'NY', 123123, 'UK', 'passport'),
8        (102, 02, '123', 'Fake Street', 'Guildford', 'Surrey', 231231, 'UK', 'drivers license'),
9        (103, 03, '80', 'Fake Lane', 'London', 'CA', 456321, 'UK', 'passport');
10
11 INSERT INTO contact_detail_type
12 VALUES (1111, '07453673950'),
13        (1112, '07731232345'),
14        (1113, '07551234567');
15
16 INSERT INTO contact_detail
17 VALUES (1001, 03, 'mobile number', 1111),
18        (1002, 01, 'mobile number', 1113),
19        (1003, 02, 'mobile number', 1112);
20
```

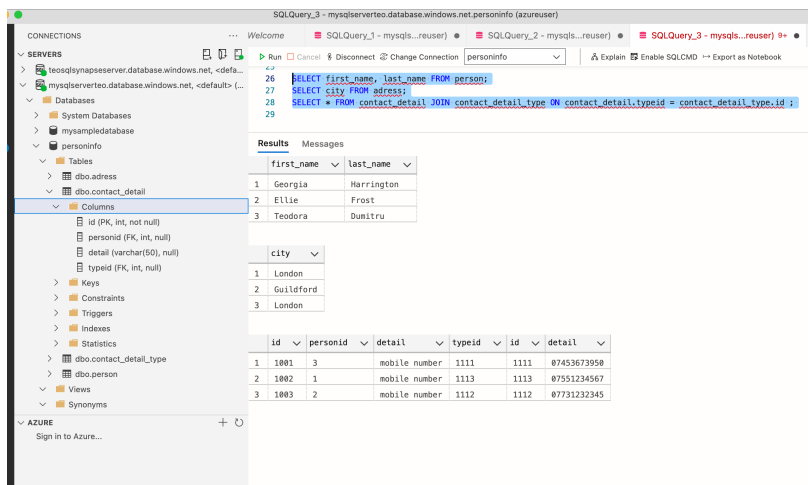


id	first_name	last_name
1	Georgia	Harrington
2	Ellie	Frost
3	Teodora	Dumitru

id	personid	line1	line2	city	state	zip	country	type_id
1	1	113	Sesame Street	London	NY	123123	UK	passport
2	2	123	Fake Street	Guildford	Surrey	231231	UK	drivers license
3	3	80	Fake Lane	London	CA	456321	UK	passport

id	personid	detail	typeid
1	1001	mobile number	1111
2	1002	mobile number	1113
3	1003	mobile number	1112

## And then run a few SQL queries



```
SQLQuery_3 - mysqserverteio.database.windows.net.personinfo (azureuser)
26 SELECT first_name, last_name FROM person;
27
28 SELECT city FROM address;
29
30 SELECT * FROM contact_detail JOIN contact_detail_type ON contact_detail.typeid = contact_detail_type.id;
```

first_name	last_name
Georgia	Harrington
Ellie	Frost
Teodora	Dumitru

city
London
Guildford
London

id	personid	detail	typeid	id	detail
1	1001	mobile number	1111	07453673950	
2	1002	mobile number	1113	07551234567	
3	1003	mobile number	1112	07731232345	

