Unit 08 Problem Set Submission Form

Overview

Your Name	Jainish Savaliya
Your SU Email	jsavaliy@syr.edu

Instructions

Put your name and SU email at the top. Answer these questions all from the lab. When asked to include screenshots, please follow the screen shot guidelines from the first lab.

Remember as you complete the problem sets it is not only about getting it right / correct. We will discuss the answers in class so it's important to articulate anything you would like to contribute to the discussion in your answer:

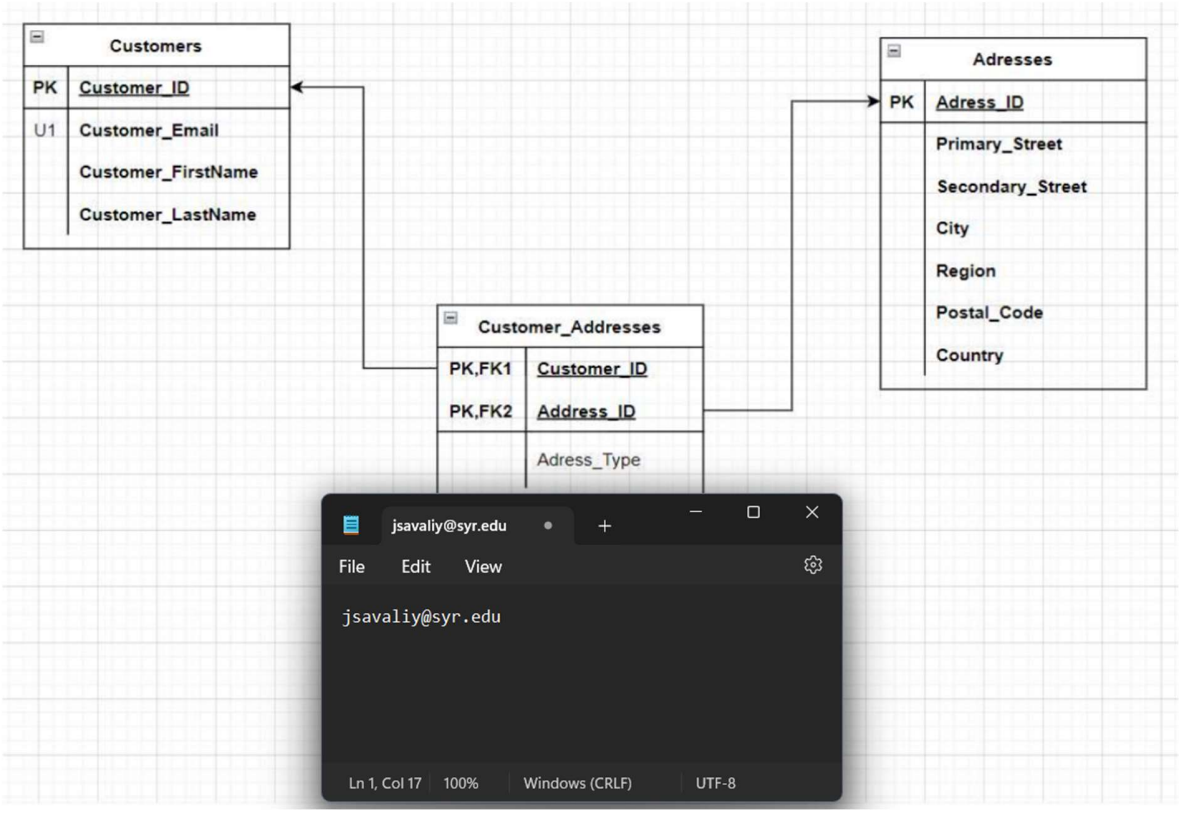
- If you feel the question is vague, include any assumptions you've made.
- If you feel the answer requires interpretation or justification provide it.
- If you do not know the answer to the question, articulate what you tried and how you are stuck.

This how you receive credit for answering questions which might not be correct.

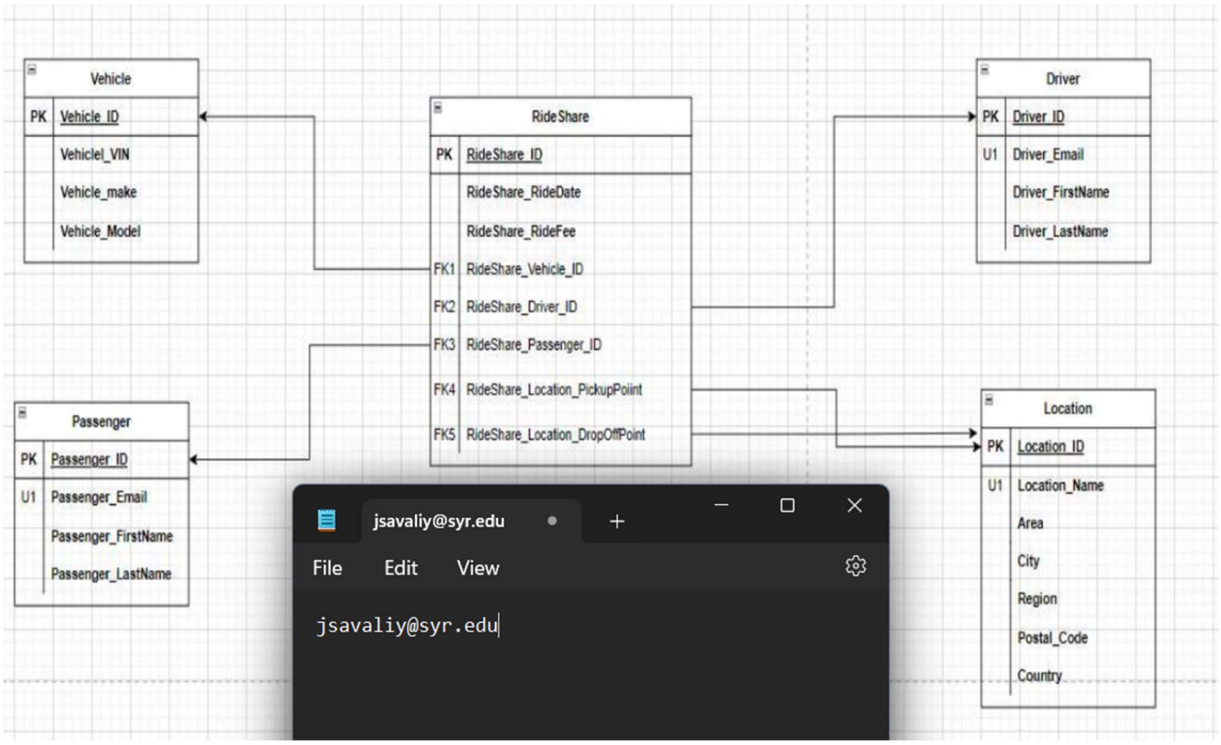
Questions

Answer these questions using the problem set submission template. You will need to provide a screen shot for each answer. Please follow the guidelines for submitting a screenshot.

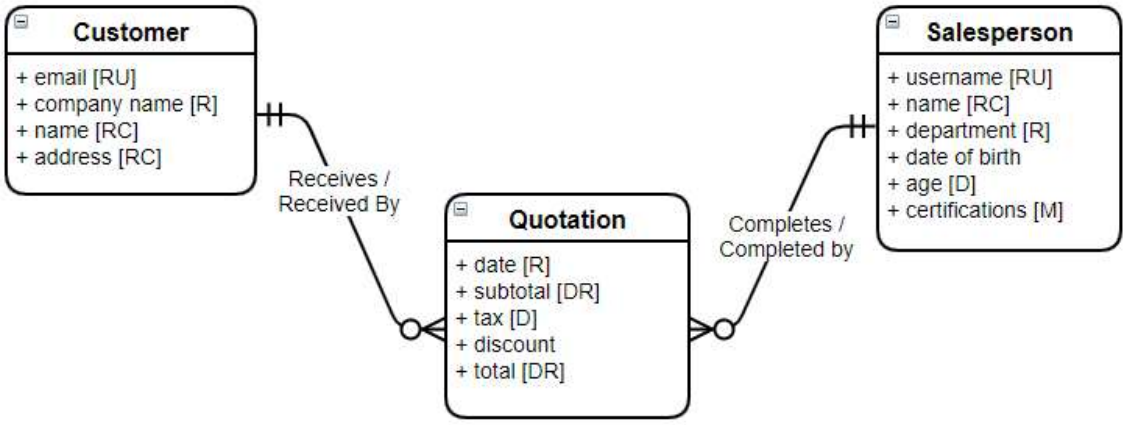
1. Provide a screenshot of your completed logical model from Walkthrough Step 2.

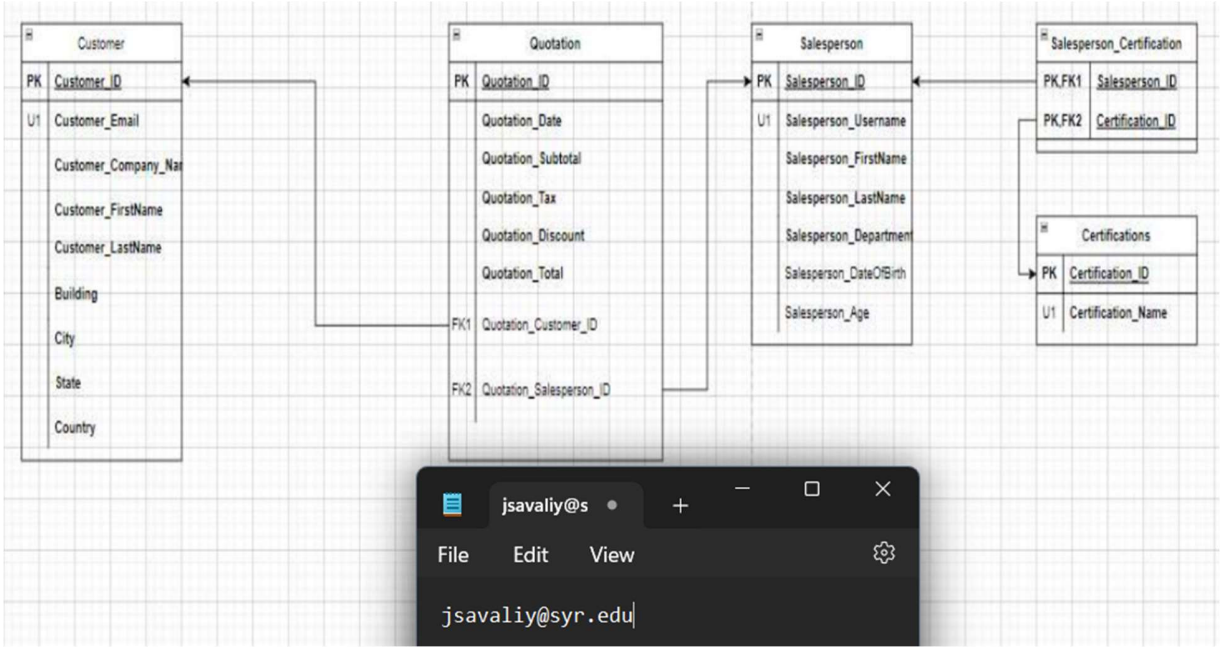


2. Provide a screenshot of your completed logical model from Walkthrough Step 3.

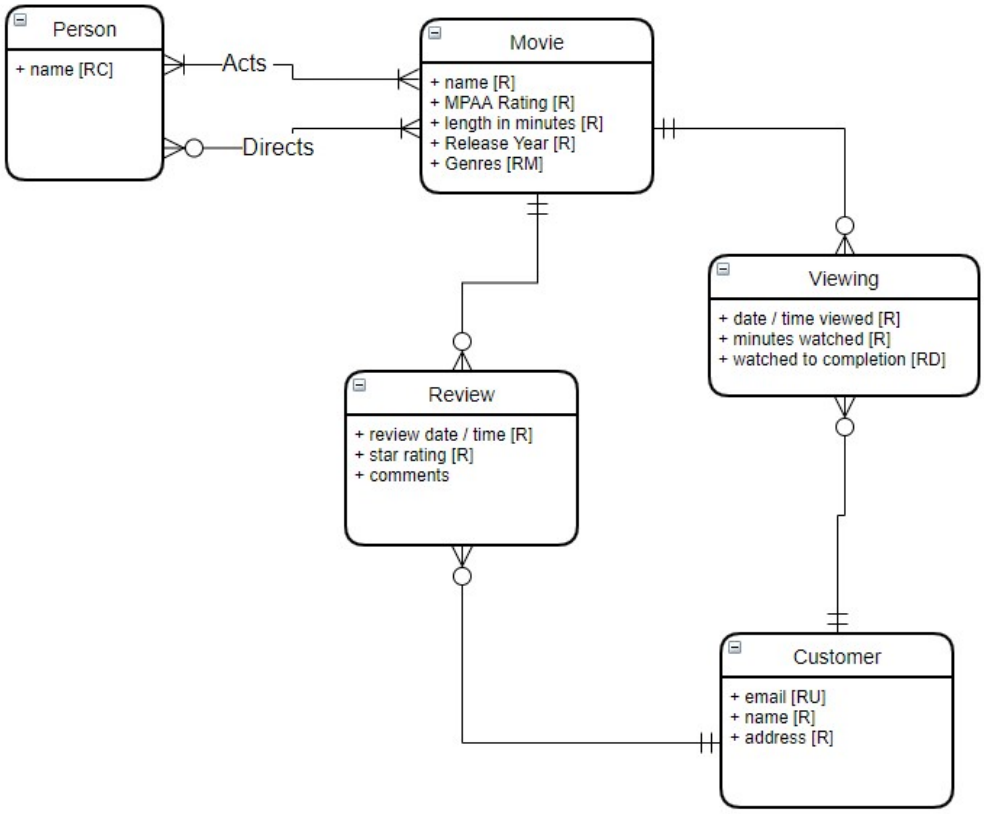


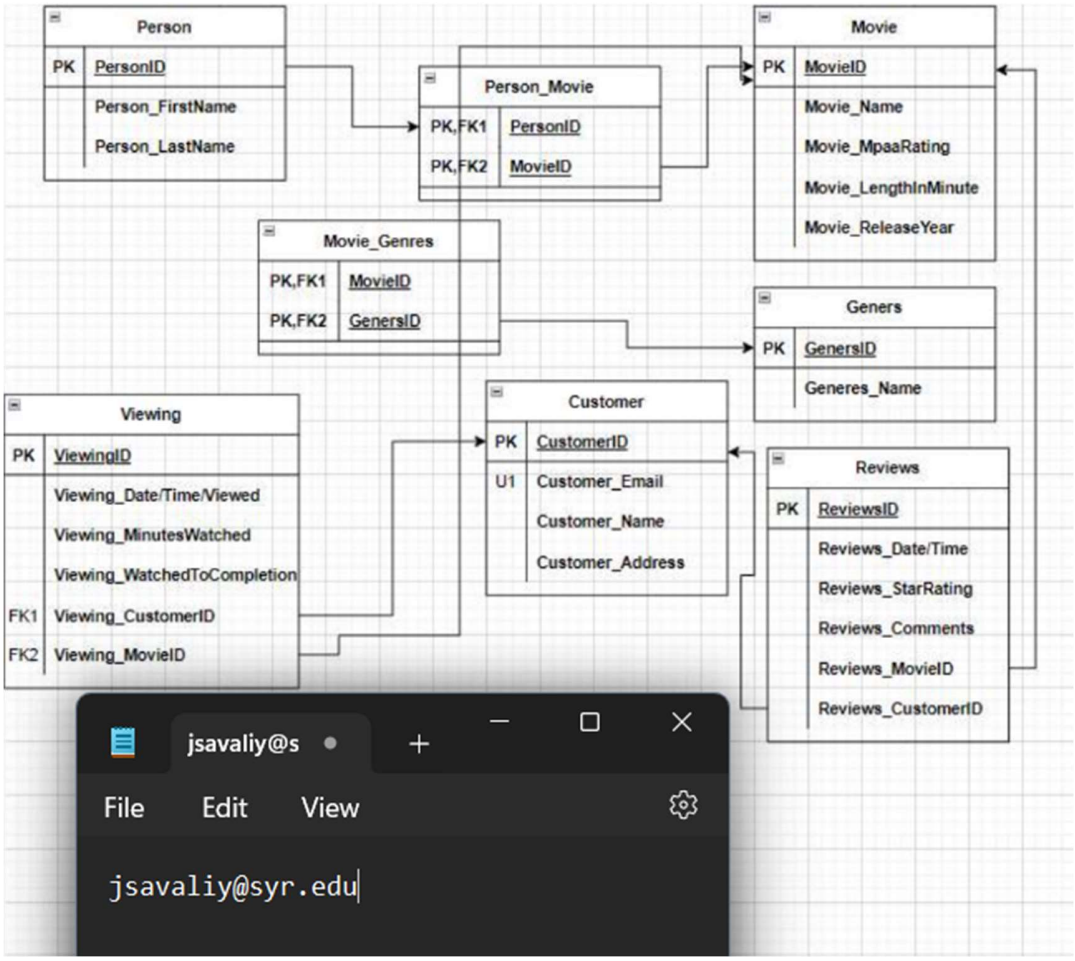
3. Map this conceptual model to a logical model.



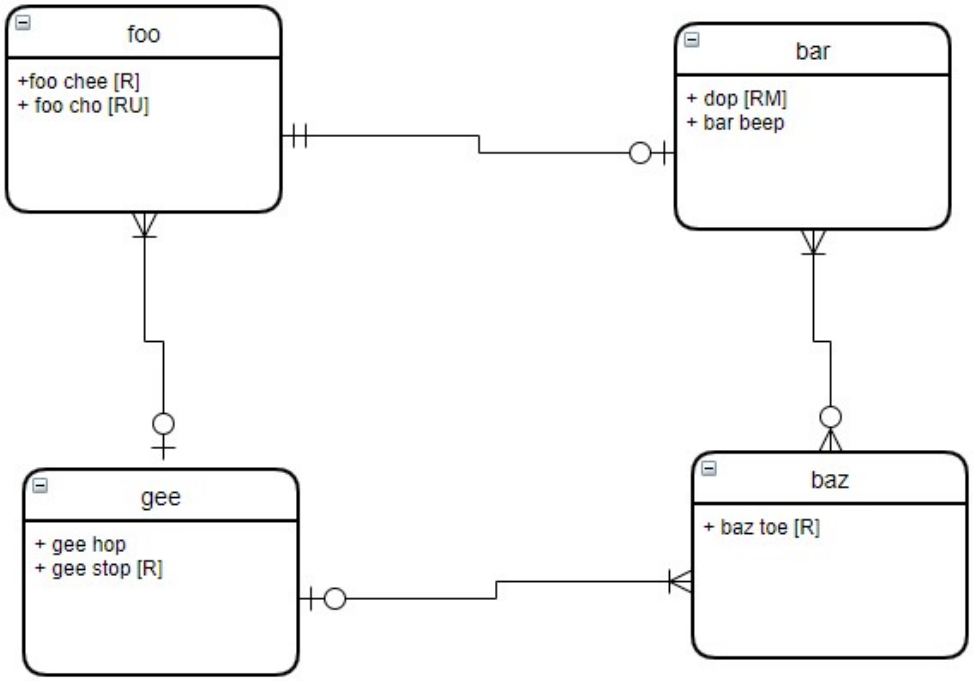


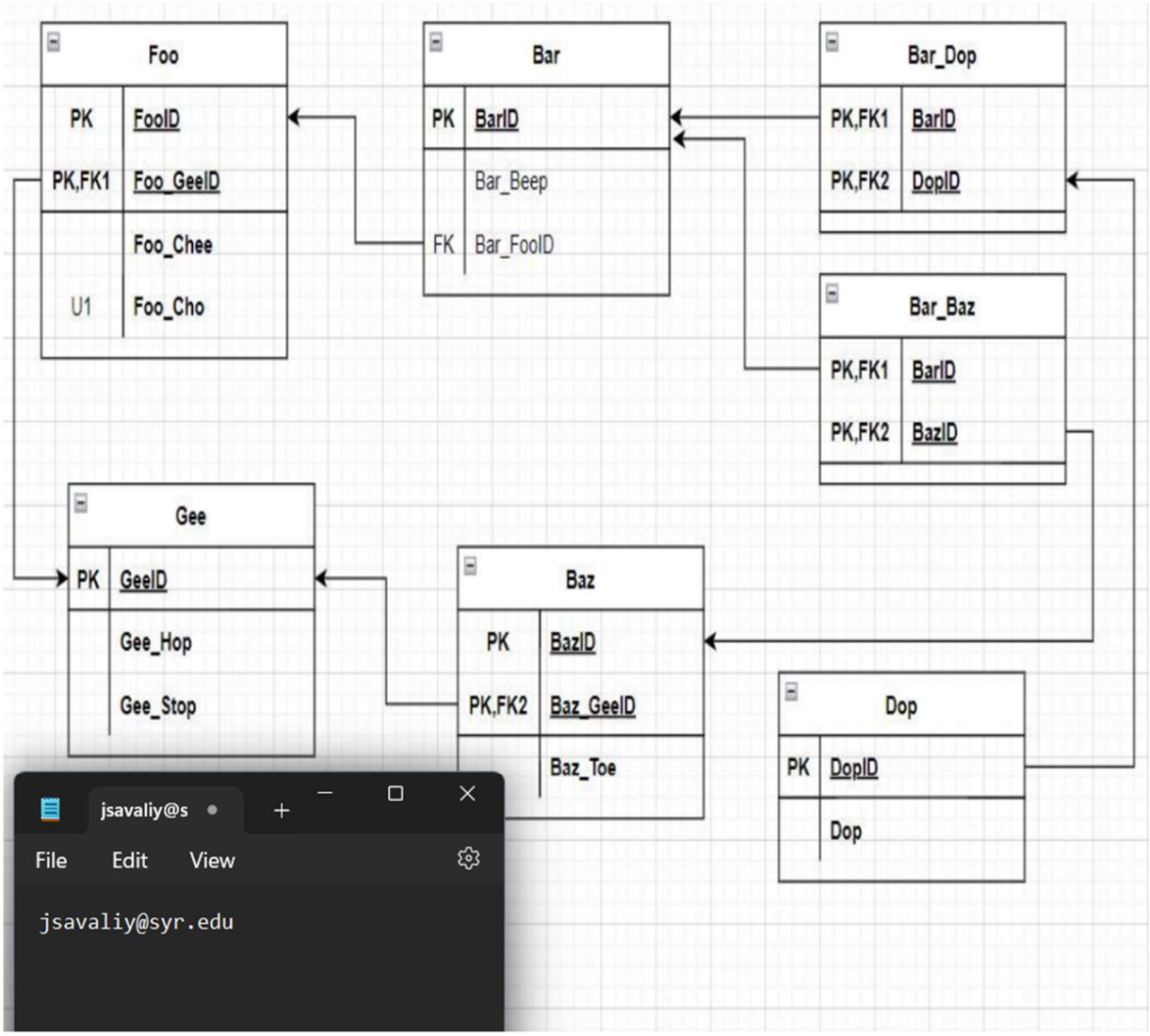
4. Map this conceptual Model to a logical Model




Person
PK PersonID
Person_FirstName
Person_LastName
Person_Movie
PK,FK1 PersonID
PK,FK2 MovieID
Movie
PK MovieID
Movie_Name
Movie_MpaaRating
Movie_LengthInMinute
Movie_ReleaseYear
Movie_Genres
PK,FK1 MovieID
PK,FK2 GenersID
Geners
PK GenersID
Generes_Name
Viewing
PK ViewingID
Viewing_Date/Time/Viewed
Viewing_MinutesWatched
Viewing_WatchedToCompletion
FK1 Viewing_CustomerID
FK2 Viewing_MovieID
Customer
PK CustomerID
U1 Customer_Email
Customer_Name
Customer_Address
Reviews
PK ReviewsID
Reviews_Date/Time
Reviews_StarRating
Reviews_Comments
Reviews_MovieID
Reviews_CustomerID
jsavaliy@s
File Edit View
jsavaliy@syr.edu

5. Map this conceptual model to a logical data model

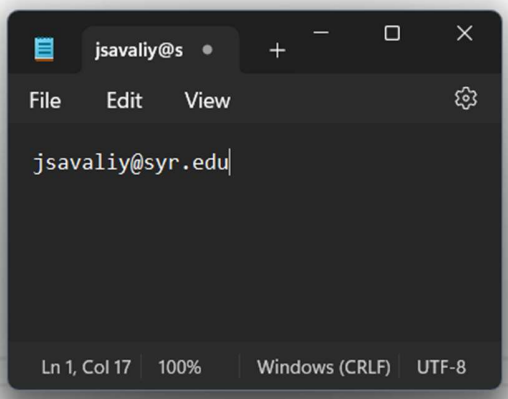




6. Write an SQL Up/Down script to create the tables, keys and constraints for the logical model you created in question 1. Create the tables first with table constraints. Then alter the tables and add the FK constraints. The down part of your script should do this in reverse.

```
--down
GO
if exists(select * from INFORMATION_SCHEMA.TABLE_CONSTRAINTS
where constraint_name = 'fk_customer_addresses_customer_id')
alter table customer_addresses drop CONSTRAINT fk_1customer_addresses_customer_id
if exists(select * from INFORMATION_SCHEMA.TABLE_CONSTRAINTS
WHERE constraint_name='fk_customer_addresses_address_id')
alter table customer_addresses drop constraint fk2_customer_addresses_address_id
drop table if exists customers
drop table if exists customer_addresses
drop table if exists addresses
Go

-- UP Metadata
create table customers (
customer_id int identity not null,
customer_email varchar(50) not null,
customer_firstname varchar(50) not null,
customer_lastname varchar(50) not null,
constraint pk_customers_id primary key (customer_id),
constraint u_customer_email unique (customer_email),
)
```



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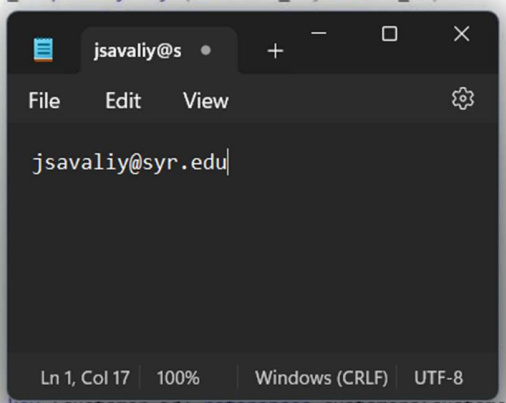
Messages

```
Commands completed successfully.
```

```
create table customer_addresses (
customer_id int not null,
address_id int not null,
address_type varchar(50) not null,
constraint pk_customer_addresses_customer_id_addresses_id primary key (customer_id,address_id)
)
create table addresses (
address_id int identity not null,
primary_street varchar(50) not null,
secondary_street varchar(50),
city char(20) not null,
region varchar(50) not null,
postal_code varchar(50) not null,
country varchar(50) not null,
constraint pk_jobs_job_id primary key (address_id)
)
alter table customer_addresses
add
constraint fk1_customer_addresses_customer_id foreign key (customer_id) references customers(customer_id),
constraint fk2_customer_addresses_address_id foreign key (address_id) references addresses(address_id)
GO
```

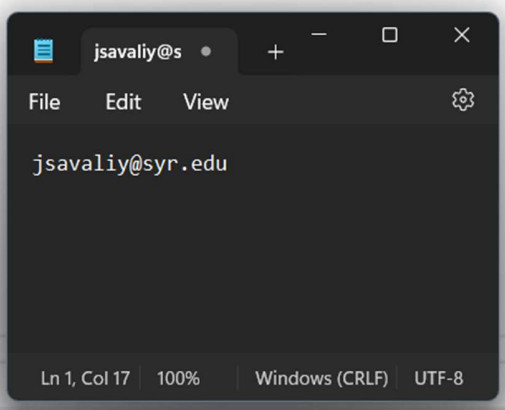


00 %

Messages

```
Commands completed successfully.
```

```
--UP DATA
insert into customers
(customer_email, customer_firstname, customer_lastname)
VALUES
('tanott@gustr.com', 'John','Cena'),
('sboate@gustr.com', 'David','Dobrik'),
('lkarforless@superrito.com', 'David', 'Beckham')
insert into addresses
(primary_street, secondary_street, city, region, postal_code, country)
VALUES
('Walnut', 'Ave', 'Syracuse', 'Onandaga', '1', 'USA'),
('Madison', 'Ave', 'Chicago', 'Lincoln Park', '2', 'USA'),
('University', 'Ave', 'Florida', 'Tampa', '3', 'USA')
insert into customer_addresses
(customer_id, address_id, address_type)
VALUES
(1,1,'H1'),
(2,2,'H2'),
(3,3,'H3')
GO
select * from customers
select * from customer_addresses
select * from addresses
GO
```



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Results Messages

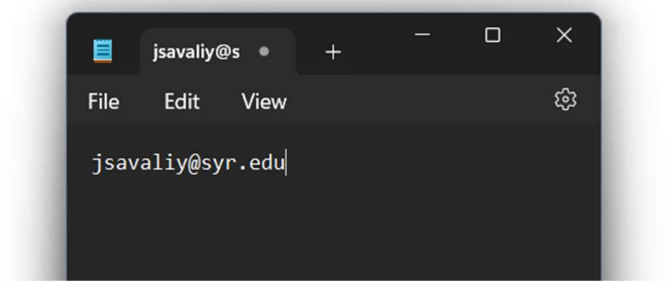
	customer_id	customer_email	customer_firstname	customer_lastname
1	1	tanott@gustr.com	John	Cena
2	2	sboate@gustr.com	David	Dobrik
3	3	lkarforless@superrito.com	David	Beckham

Results Messages

	customer_id	customer_email	customer_firstname	customer_lastname
1	1	tanott@gustr.com	John	Cena
2	2	sboate@gustr.com	David	Dobrik
3	3	lkarforless@superrito.com	David	Beckham

	customer_id	address_id	address_type
1	1	1	H1
2	2	2	H2
3	3	3	H3

	address_id	primary_street	secondary_street	city	region	postal_code	country
1	1	Walnut	Ave	Syracuse	Onandaga	1	USA
2	2	Madison	Ave	Chicago	Lincoln Park	2	USA
3	3	University	Ave	Florida	Tampa	3	USA



Reflection

Use this section to reflect on your learning. To achieve the highest grade on the assignment you must be as descriptive and personal as possible with your reflection.

1. What are the key things you learned through the process of completing this assignment?
   -> The key thing I learned from this assignment is logical model.

2. What were the challenges or roadblocks (if any) you encountered on the way to completing it?
   ➔ **I felt some difficulty understanding the last question and I watched the Video to resolve doubts.**

3. Were you prepared for this assignment? What can you do to be better prepared?
   ➔ **Yes, I think I can**

4. Now that you have completed the assignment rate your comfort level with this week's material. This should be an honest assessment: (choose one)

   4 ==> I understand this material and can explain it to others.