Megan Moore
Buff ID 1014735
Summer 1 2021 – CIDM 6350
Assignment 2

Given the following two tables

Receipt Table

ReceiptNo	CustomerId	ReceiptDate	Casheir	Total
2	33	2020-02-25	John	120.50
6	33	2021-03-12	Alice	312.25
19	222	2020-02-25	John	77.99

ReceiptEntries Table

ReceiptNo	LineNo	ItemDescription	uPrice	Quantity
19	1	Meat product #1125	25.00	2.00
19	2	Groceary #2232	7.99	1.00
2	1	Groceary #2232	7.99	1.00
2	2	Frozen Foods #0232	18.75	2.00
2	3	Meat product #1125	25.00	3.00
6	1	TV Model #9922	310.00	1.00

1-Write SQL DDL command to Create a database schema named "Assignment2"

-- Question 1.1
show databases;
select database();
create database if not exists Assignment2;
-- drop database Assignment2;
use Assignment2;

2-Write SQL DDL commands to create the "**Receipt**" and "**ReceipteEntries**" tables in the database "Assignment2"

See next answer where it shows both this and the next part.

3-Write SQL "insert into" commands to insert the data from the given tables into the tables you ceated in the previous question

-- Question 1.2 and 1.3
show tables;
-- drop table Receipt;
create table Receipt (
ReceiptNo Int primary key,
CustomerId varchar(20) null default 'no text',
ReceiptDate varchar(20) null default 'no text',
Cashier varchar(20) null default 'no text',
Total decimal(10,2)
);
desc Receipt;
insert into Receipt values

Megan Moore
Buff ID 1014735
Summer 1 2021 – CIDM 6350
(2,33,2020-02-25,'John',120.50),(6,33,2021-03-12,'Alice',312.25),
(19,222,2020-02-25,'John',77.99);
select * from Receipt;
-- drop table ReceiptEntries;
create table ReceiptEntries (
ReceiptNo Int,
LineNo int,
ItemDescription varchar(20) null default 'no text',
uPrice decimal(10,2),
Quantity decimal(10,2)
);
desc ReceiptEntries;
insert into ReceiptEntries values (19,1,'Meat product
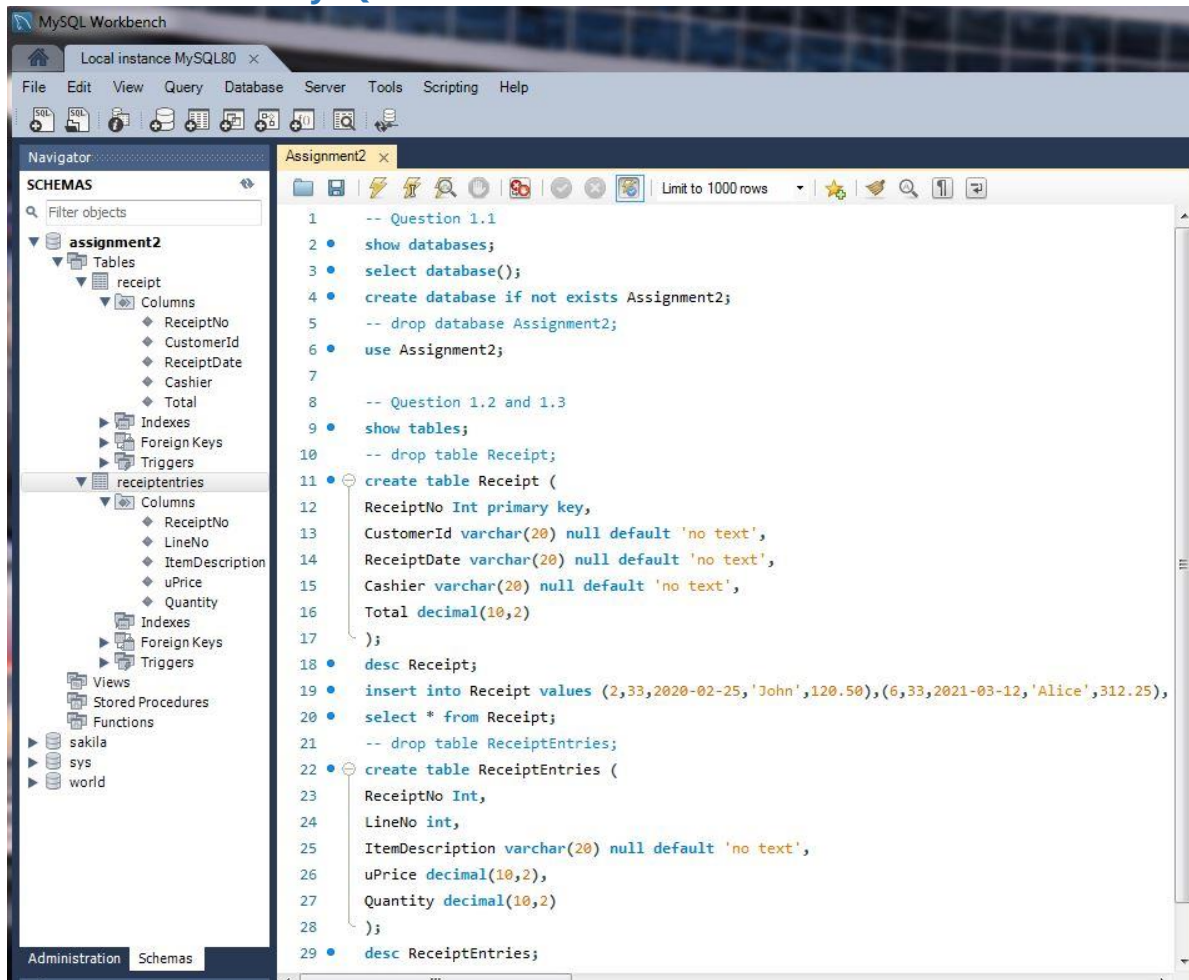#1125',25.00,2.00),(19,2,'Groceary #2232',7.99,1.00),(2,1,'Groceary
#2232',7.99,1.00),(2,2,'Frozen Foods #0232',18.75,2.00),(2,3,'Meat
product #1125',25.00,3.00),(6,1,'TV Model #9922',310.00,1.00);
select * from ReceiptEntries;
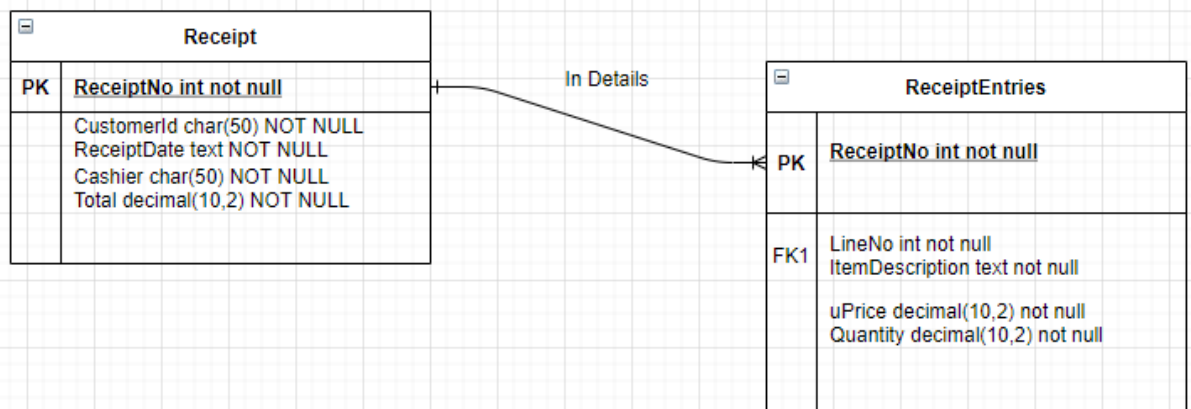
Screenshot from MySQLWorkbench

Megan Moore
Buff ID 1014735
Summer 1 2021 – CIDM 6350

4-Answer the following questions:

i) What would be the best primary key for each table?

For Receipts, use ReceiptNo

For ReceiptEntries, also use ReceiptNo

ii) If the two tables are associated via a 1-to-M "**Has**" relationship (i.e. each *Receipt* "**has**" one or more *ReceiptEntries*, and each *ReceiptEntry* belongs to one and only one *Receipt*), then which column in the given tables will be used as FK to realize this relationship (don't add any new columns)?

This could be the LineNo from the ReceiptEntries table

iii) Draw Crow's foot ERD for these tables showing, the attributes, the keys (PKs and/or FKs), and the "Has" relationship (with cardinality and optionality) between "*Receipt*" and "*ReceiptEntries*" . (i.e. include all of the details)

iv) Show the type of each entity in your ERD (strong/weak), and show the type of the "Has" relationship (identifying/non-identifying)