

# Group 3 Submission Document

[GitHub repo we used](#)

## Deliverable 1

Place all your your group members names and email contacts in your assignment.

- Michael Stacy: [jmst231@uky.edu](mailto:jmst231@uky.edu)
- DeMarkus Butler: [dlbu228@uky.edu](mailto:dlbu228@uky.edu)
- Tag Howard: [tag@jthoward.dev](mailto:tag@jthoward.dev)
- Keegan McCorkle: [kjmc240@uky.edu](mailto:kjmc240@uky.edu)

**Note in your submission if you did this Deliverable by Deliverable or read the complete assignment prior to starting.**

We read the entire assignment prior to starting

## Deliverable 2

**Show the commands you used to build your table(s).**

```
CREATE TABLE Entity_Table (  
  Entity_ID INT NOT NULL AUTO_INCREMENT,  
  Street_Name VARCHAR(50) NOT NULL,  
  Zip varchar(5) NOT NULL,  
  City varchar(128) NOT NULL,  
  StateName char(2) NOT NULL,  
  EntityName varchar(128) NOT NULL,  
  PRIMARY KEY (Entity_ID)  
);  
  
CREATE TABLE Receipt_Table (  
  Transaction_Number INT NOT NULL AUTO_INCREMENT,  
  Seller_Key INT NOT NULL,  
  Buyer_Key INT NOT NULL,  
  Picture BLOB,  
  Zip varchar(5) NOT NULL,  
  StateName char(2) NOT NULL,  
  Number_Of_Items INT NOT NULL,  
  Total_Sales decimal(15, 2) NOT NULL,  
  Highest_Price decimal(15, 2) NOT NULL,  
  Lowest_Price decimal(15, 2) NOT NULL,  
  PRIMARY KEY (Transaction_Number),  
  FOREIGN KEY (Seller_Key) REFERENCES Entity_Table(Entity_ID),  
  FOREIGN KEY (Buyer_Key) REFERENCES Entity_Table(Entity_ID)  
);  
  
CREATE TABLE Telephone_Numbers (  
  Telephone_Number varchar(32) NOT NULL,  
  Entity_ID INT NOT NULL,  
  PRIMARY KEY (Telephone_Number),  
  FOREIGN KEY (Entity_ID) REFERENCES Entity_Table(Entity_ID)  
);
```

## Deliverable 3

**Show the commands you used to load your table(s).**

```
INSERT INTO Entity_Table(Entity_ID, Street_Name, Zip, City, StateName, EntityName)  
VALUES  
(3, '82 Beaver St Room 1301', '10005', 'New York', 'NY', 'John Wick' );  
  
INSERT INTO Entity_Table(Entity_ID, Street_Name, Zip, City, StateName, EntityName)
```

```
VALUES
(40, '4081 Finn Way', '40503', 'Lexington', 'KY', 'J. Alexander''s Restaurant' );
```

Show two of the commands you used to load a receipt entity data into your table(s).

```
INSERT INTO Receipt_Table(Transaction_Number, Seller_Key, Buyer_Key, Picture, Zip, StateName, Total_Sales, Number_Of_Items, Highest_Price, Lowest_Price)
VALUES
(1, 13, 1, NULL, '40503', 'KY', 25, 5, 5, 5);
```

```
INSERT INTO Receipt_Table(Transaction_Number, Seller_Key, Buyer_Key, Picture, Zip, StateName, Total_Sales, Number_Of_Items, Highest_Price, Lowest_Price)
VALUES
(2, 33, 31, NULL, '40504', 'KY', 30, 5, 6.99, 3.49),
```

## Deliverable 4

run show tables; from your database prompt after connecting to your database.

```
+-----+
| Tables_in_jtho264 |
+-----+
| Entity_Table      |
| Receipt_Table     |
| Telephone_Numbers |
+-----+
```

## Deliverable 5

run select \* from ; where is the name of the table(s) you created in your database.

```
SELECT * from Entity_Table;
```

Entity_ID	Street_Name	Zip	City	StateName	EntityName
1	300 Rose Street Room 102 Hardymon Building	40506	Lexington	KY	Mr. Ray L. Hyatt Jr.
2	301 Hilltop Avenue, Room 102	40506	Lexington	KY	Mr. Ray L. Hyatt Jr.
3	82 Beaver St Room 1301	10005	New York	NY	John Wick
4	200 Park Avenue Penthouse	10001	New York	NY	Tony Stark
5	117A Bleecker Street	10001	New York	NY	Dr. Stephen Strange
6	200 Park Avenue Apartment 221	10001	New York	NY	Bob C. Smith
7	#1 Avenue of Champions	40506	Lexington	KY	Bowman F. Wildcat
8	200 Park Avenue	40507	Lexington	KY	Bob C. Smith
9	1 Dead End Row Room 200	12347	Dallas	TX	Bob Porter c/o Intech
10	1 Dead End Row Room 200	12347	Dallas	TX	Mr. Bob Sydell c/o Intech
11	2299 Richmond Rd	40502	Lexington	KY	Chick-fil-A
12	471 Rose St	40508	Lexington	KY	President Eli Capilouto
13	150 W Lowry Ln #190	40503	Lexington	KY	Kroger
14	2161 Paul Jones Way	40509	Lexington	KY	Culver's
15	1180 Seven Seas Dr	32830	Lake Buena Vista	FL	Magic Kingdom Park
16	500 W New Circle Rd	40511	Lexington	KY	Walmart Supercenter
17	123 NotAReal St	40502	Lexington	KY	Tag Howard
18	1600 Pennsylvania Ave NW	20500	Washington	DC	White House
19	1400 Defense Pentagon	20301	Washington	DC	Pentagon
20	101 Cochran Rd	40502	Lexington	KY	Joella's Hot Chicken
21	867 South Broadway	40504	Lexington	KY	Jersey Mike's Subs
22	700 Clark Ave	63102	St. Louis	MO	Busch Stadium
23	Antarctic Support Contract 7400 S. Tucson Way	80112	Centennial	CO	Palmer Station (Antarctica)
24	1386 Lexington Rd	40206	Louisville	KY	Headliners Music Hall
25	867 South Broadway	40504	Lexington	KY	Miyako Poke Bowl
26	899 Manchester St	40508	Lexington	KY	Manchester Music Hall
27	1649 M-32	49735	Gaylord	MI	E-Free Church Gaylord Campus
28	7345 Delridge Way SW	98106	Seattle	WA	The Home Depot
29	500 S Upper St STE 110	40508	Lexington	KY	Target
30	211 NE Revere Avenue	97701	Bend	OR	Blockbuster
31	1837 Plaudit Pl	40509	Lexington	KY	Michael Stacy
32	525 Alakawa St	96817	Honolulu	HI	Costco Wholesale
33	2021 Harrodsburg Rd	40504	Lexington	KY	The Home Depot
34	2039 El Camino Real	95050	Santa Clara	CA	Patel Brothers
35	918 Natural Bridge Rd	40376	Slade	KY	Thatcher Barbecue Company
36	867 S Broadway	40504	Lexington	KY	DV8 Kitchen
37	3400 Vine St	45220	Cincinnati	OH	Cincinnati Zoo & Botanical Garden
38	417 E Maxwell St Unit B	40508	Lexington	KY	Kentucky Native Café
39	4055 Nichols Park Dr	40503	Lexington	KY	Lowe's
40	4081 Finn Way	40503	Lexington	KY	J. Alexander's Restaurant

SELECT \* from Receipt\_Table;

Transaction_Number	Seller_Key	Buyer_Key	Picture	Zip	StateName	Number_Of_Items	Total_Sales	Highest_Price	Lowest_Price
1	13	1	NULL	40503	KY	5	25.00	5.00	5.00
2	33	31	NULL	40504	KY	5	30.00	6.99	3.49
3	11	4	NULL	40502	KY	3	29.75	13.37	6.49
4	29	17	NULL	40509	KY	5	36.04	12.00	2.89
5	36	3	NULL	40504	KY	4	30.02	15.00	3.00
6	13	5	NULL	40503	KY	5	22.10	6.49	0.24
7	24	17	NULL	40508	KY	1	16.53	16.53	16.53
8	13	2	NULL	40503	KY	5	47.44	23.00	4.49
9	14	12	NULL	40509	KY	4	25.00	9.99	4.00
10	15	9	NULL	32830	FL	6	78.25	15.99	9.99
11	16	8	NULL	40511	KY	4	57.80	20.83	10.87
12	29	17	NULL	40508	KY	6	80.97	30.67	5.87
13	21	31	NULL	40527	KY	4	40.28	15.60	6.00
14	22	31	NULL	20500	DC	2	36217.34	36213.35	3.99
15	18	19	NULL	20301	DC	1	705392000000.00	705392000000.00	705392000000.00

15 rows in set (0.001 sec)

## Deliverable 6

### the query you wrote

Select EntityName as "Customer/Business Full Name", Concat(Street\_Name, ", ", City, ", ", StateName, ", ", Zip) As "Delivery Address" FROM Entity\_Table;

### the output it produced

Customer/Business Full Name	Delivery Address
Mr. Ray L. Hyatt Jr.	300 Rose Street Room 102 Hardymon Building, Lexington, KY, 40506
Mr. Ray L. Hyatt Jr.	301 Hilltop Avenue, Room 102, Lexington, KY, 40506
John Wick	82 Beaver St Room 1301, New York, NY, 10005
Tony Stark	200 Park Avenue Penthouse, New York, NY, 10001
Dr. Stephen Strange	117A Bleecker Street, New York, NY, 10001
Bob C. Smith	200 Park Avenue Apartment 221, New York, NY, 10001
Bowman F. Wildcat	#1 Avenue of Champions, Lexington, KY, 40506
Bob C. Smith	200 Park Avenue, Lexington, KY, 40507
Bob Porter c/o Intech	1 Dead End Row Room 200, Dallas, TX, 12347
Mr. Bob Sydell c/o Intech	1 Dead End Row Room 200, Dallas, TX, 12347
Chick-fil-A	2299 Richmond Rd, Lexington, KY, 40502
President Eli Capilouto	471 Rose St, Lexington, KY, 40508
Kroger	150 W Lowry Ln #190, Lexington, KY, 40503
Culver's	2161 Paul Jones Way, Lexington, KY, 40509
Magic Kingdom Park	1180 Seven Seas Dr, Lake Buena Vista, FL, 32830
Walmart Supercenter	500 W New Circle Rd, Lexington, KY, 40511
Tag Howard	123 NotAReal St, Lexington, KY, 40502
White House	1600 Pennsylvania Ave NW, Washington, DC, 20500
Pentagon	1400 Defense Pentagon, Washington, DC, 20301
Joella's Hot Chicken	101 Cochran Rd, Lexington, KY, 40502
Jersey Mike's Subs	867 South Broadway, Lexington, KY, 40504
Busch Stadium	700 Clark Ave, St. Louis, MO, 63102
Palmer Station (Antarctica)	Antarctic Support Contract 7400 S. Tucson Way, Centennial, CO, 80112
Headliners Music Hall	1386 Lexington Rd, Louisville, KY, 40206
Miyako Poke Bowl	867 South Broadway, Lexington, KY, 40504
Manchester Music Hall	899 Manchester St, Lexington, KY, 40508
E-Free Church Gaylord Campus	1649 M-32, Gaylord, MI, 49735
The Home Depot	7345 Delridge Way SW, Seattle, WA, 98106
Target	500 S Upper St STE 110, Lexington, KY, 40508
Blockbuster	211 NE Revere Avenue, Bend, OR, 97701
Michael Stacy	1837 Plaudit Pl, Lexington, KY, 40509
Costco Wholesale	525 Alakawa St, Honolulu, HI, 96817
The Home Depot	2021 Harrodsburg Rd, Lexington, KY, 40504
Patel Brothers	2039 El Camino Real, Santa Clara, CA, 95050
Thatcher Barbecue Company	918 Natural Bridge Rd, Slade, KY, 40376
DV8 Kitchen	867 S Broadway, Lexington, KY, 40504
Cincinnati Zoo & Botanical Garden	3400 Vine St, Cincinnati, OH, 45220
Kentucky Native Café	417 E Maxwell St Unit B, Lexington, KY, 40508
Lowe's	4055 Nichols Park Dr, Lexington, KY, 40503
J. Alexander's Restaurant	4081 Finn Way, Lexington, KY, 40503

# Deliverable 7

## Show the command you used to modify the table(s)

```
ALTER TABLE Entity_Table
ADD Primary_Telephone_Number varchar(32);

ALTER TABLE Entity_Table
ADD CONSTRAINT fk_Telephone_Number
FOREIGN KEY (Primary_Telephone_Number) REFERENCES Telephone_Numbers(Telephone_Number);
```

## Show the command(s) you used to modify the entities when you added the phone numbers

```
-- Primary phone numbers
INSERT INTO Telephone_Numbers(Telephone_Number , Entity_ID)
VALUES
('555-555-5555', 3),
('555-555-3142', 4),
('(555)555-4321', 5),
('(859)335-9856', 11),
('859-257-1701', 12),
('(859) 278-6228', 13),
('(859)263-7777', 14),
('(407)939-5277', 15),
('(859)381-9370', 16),
('(859)684-8444', 17),
('(202)456-1414', 18),
('(703)697-1776', 19),
('(859) 269-9593', 20),
('(859)288-0008', 21),
('13143459600', 22),
('(502) 584-8088', 24),
('(859)469-9098', 25),
('(859) 537-7321', 26),
('19897322647', 27),
('12067622126', 28),
('18592863352', 29),
('(541)385-9111', 30),
('(859)789-0812', 31),
('(808)526-6100', 32),
('(859) 373-0594', 33),
('14082613555', 34),
('(606)947-8040', 35),
('(859) 955-0388', 36),
('(513)281-4700', 37),
('(859)281-1718', 38),
('(859) 971-8300', 39),
('(859)687-0099', 40);

-- Citation:https://stackoverflow.com/questions/2015527/copy-one-column-from-one-table-to-another
-- UPDATE results, build
-- SET      results.platform_to_insert = build.correct_platform
-- WHERE    results.BuildID = build.BuildID
```

```
UPDATE Entity_Table, Telephone_Numbers
SET Entity_Table.Primary_Telephone_Number = Telephone_Numbers.Telephone_Number
WHERE Entity_Table.Entity_ID = Telephone_Numbers.Entity_ID;
```

```
-- Other phone numbers
INSERT INTO Telephone_Numbers(Telephone_Number , Entity_ID)
VALUES
('1-800-591-3869', 29),
('(859)260-9410', 33),
('(859)260-9404', 33);
```

## Show the select statement(s) you wrote

```
SELECT
    EntityName as 'Customer Name',
    Telephone_Number as 'Phone number',
    Zip as 'Zip code'
FROM
    Entity_Table
    LEFT JOIN Telephone_Numbers ON Telephone_Numbers.Entity_ID = Entity_Table.Entity_ID
WHERE
```

```
Zip = (
  SELECT
    Zip
  FROM
    Entity_Table
  GROUP BY
    Zip
  ORDER BY
    COUNT(Zip) DESC
  LIMIT
    1
)
OR Zip = (
  SELECT
    Zip
  FROM
    Entity_Table
  GROUP BY
    Zip
  ORDER BY
    COUNT(Zip) DESC
  LIMIT
    1, 1
)
ORDER BY
  Zip;
```

Show the output your queries produced

Customer Name	Phone number	Zip code
Jersey Mike's Subs	(859)288-0008	40504
Miyako Poke Bowl	(859)469-9098	40504
The Home Depot	(859) 373-0594	40504
The Home Depot	(859)260-9404	40504
The Home Depot	(859)260-9410	40504
DV8 Kitchen	(859) 955-0388	40504
President Eli Capilouto	859-257-1701	40508
Manchester Music Hall	(859) 537-7321	40508
Target	1-800-591-3869	40508
Target	18592863352	40508
Kentucky Native Café	(859)281-1718	40508

11 rows in set (0.00 sec)

Show the output from select \* from for each of your tables.

SELECT \* from Entity\_Table;

Entity_ID	Street_Name	Zip	City	StateName	EntityName	Primary_Telephone_Number
1	300 Rose Street Room 102 Hardymon Building	40506	Lexington	KY	Mr. Ray L. Hyatt Jr.	NULL
2	301 Hilltop Avenue, Room 102	40506	Lexington	KY	Mr. Ray L. Hyatt Jr.	NULL
3	82 Beaver St Room 1301	10005	New York	NY	John Wick	555-555-5555
4	200 Park Avenue Penthouse	10001	New York	NY	Tony Stark	555-555-3142
5	117A Bleecker Street	10001	New York	NY	Dr. Stephen Strange	(555)555-4321
6	200 Park Avenue Apartment 221	10001	New York	NY	Bob C. Smith	NULL
7	#1 Avenue of Champions	40506	Lexington	KY	Bowman F. Wildcat	NULL
8	200 Park Avenue	40507	Lexington	KY	Bob C. Smith	NULL
9	1 Dead End Row Room 200	12347	Dallas	TX	Bob Porter c/o Intech	NULL
10	1 Dead End Row Room 200	12347	Dallas	TX	Mr. Bob Sydell c/o Intech	NULL
11	2299 Richmond Rd	40502	Lexington	KY	Chick-fil-A	(859)335-9856
12	471 Rose St	40508	Lexington	KY	President Eli Capilouto	859-257-1701
13	150 W Lowry Ln #190	40503	Lexington	KY	Kroger	(859) 278-6228
14	2161 Paul Jones Way	40509	Lexington	KY	Culver's	(859)263-7777
15	1180 Seven Seas Dr	32830	Lake Buena Vista	FL	Magic Kingdom Park	(407)939-5277
16	500 W New Circle Rd	40511	Lexington	KY	Walmart Supercenter	(859)381-9370
17	111 Avenue of Champions Holmes Hall 803	40527	Lexington	KY	Tag Howard	(859)684-8444
18	1600 Pennsylvania Ave NW	20500	Washington	DC	White House	(202)456-1414
19	1400 Defense Pentagon	20301	Washington	DC	Pentagon	(703)697-1776
20	101 Cochran Rd	40502	Lexington	KY	Joella's Hot Chicken	(859) 269-9593
21	867 South Broadway	40504	Lexington	KY	Jersey Mike's Subs	(859)288-0008
22	700 Clark Ave	63102	St. Louis	MO	Busch Stadium	13143459600
23	Antarctic Support Contract 7400 S. Tucson Way	80112	Centennial	CO	Palmer Station (Antarctica)	NULL
24	1386 Lexington Rd	40206	Louisville	KY	Headliners Music Hall	(502) 584-8088
25	867 South Broadway	40504	Lexington	KY	Miyako Poke Bowl	(859)469-9098
26	899 Manchester St	40508	Lexington	KY	Manchester Music Hall	(859) 537-7321

27		1649 M-32		49735		Gaylord		MI		E-Free Church Gaylord Campus		19897322647	
28		7345 Delridge Way SW		98106		Seattle		WA		The Home Depot		12067622126	
29		500 S Upper St STE 110		40508		Lexington		KY		Target		18592863352	
30		211 NE Revere Avenue		97701		Bend		OR		Blockbuster		(541)385-9111	
31		1837 Plaudit Pl		40509		Lexington		KY		Michael Stacy		(859)789-0812	
32		525 Alakawa St		96817		Honolulu		HI		Costco Wholesale		(808)526-6100	
33		2021 Harrodsburg Rd		40504		Lexington		KY		The Home Depot		(859) 373-0594	
34		2039 El Camino Real		95050		Santa Clara		CA		Patel Brothers		14082613555	
35		918 Natural Bridge Rd		40376		Slade		KY		Thatcher Barbecue Company		(606)947-8040	
36		867 S Broadway		40504		Lexington		KY		DV8 Kitchen		(859) 955-0388	
37		3400 Vine St		45220		Cincinnati		OH		Cincinnati Zoo & Botanical Garden		(513)281-4700	
38		417 E Maxwell St Unit B		40508		Lexington		KY		Kentucky Native Café		(859)281-1718	
39		4055 Nichols Park Dr		40503		Lexington		KY		Lowe's		(859) 971-8300	
40		4081 Finn Way		40503		Lexington		KY		J. Alexander's Restaurant		(859)687-0099	
+-----+													

40 rows in set (0.00 sec)

SELECT \* from Receipt\_Table;

Transaction_Number	Seller_Key	Buyer_Key	Picture	Zip	StateName	Number_Of_Items	Total_Sales	Highest_Price	Lowest_Price
1	13	1	NULL	40503	KY	5	25.00	5.00	5.00
2	33	31	NULL	40504	KY	5	30.00	6.99	3.49
3	11	29	NULL	40502	KY	3	29.75	13.37	6.49
4	29	17	NULL	40509	KY	5	36.04	12.00	2.89
5	36	3	NULL	40504	KY	4	30.02	15.00	3.00
6	13	5	NULL	40503	KY	5	22.10	6.49	0.24
7	24	17	NULL	40508	KY	1	16.53	16.53	16.53
8	13	32	NULL	40503	KY	5	47.44	23.00	4.49
9	14	21	NULL	40509	KY	4	25.00	9.99	4.00
10	15	29	NULL	32830	FL	6	78.25	15.99	9.99
11	16	29	NULL	40511	KY	4	57.80	20.83	10.87
12	29	17	NULL	40508	KY	6	80.97	30.67	5.87
13	21	31	NULL	40527	KY	4	40.28	15.60	6.00
14	22	31	NULL	20500	DC	2	36217.34	36213.35	3.99
15	18	19	NULL	20301	DC	1	705392000000.00	705392000000.00	705392000000.00
+-----+									

15 rows in set (0.00 sec)

SELECT \* from Telephone\_Numbers;

Telephone_Number	Entity_ID
555-555-5555	3
555-555-3142	4
(555)555-4321	5
(859)335-9856	11
859-257-1701	12
(859) 278-6228	13
(859)263-7777	14
(407)939-5277	15
(859)381-9370	16
(859)684-8444	17
(202)456-1414	18
(703)697-1776	19
(859) 269-9593	20
(859)288-0008	21
13143459600	22
(502) 584-8088	24
(859)469-9098	25
(859) 537-7321	26
19897322647	27
12067622126	28
1-800-591-3869	29
18592863352	29
(541)385-9111	30
(859)789-0812	31
(808)526-6100	32
(859) 373-0594	33
(859)260-9404	33
(859)260-9410	33
14082613555	34
(606)947-8040	35
(859) 955-0388	36
(513)281-4700	37
(859)281-1718	38
(859) 971-8300	39
(859)687-0099	40
+-----+	

35 rows in set (0.00 sec)

# Deliverable 8

## the query you wrote

```
SELECT
    Buyer.EntityName AS "Customer name",
    Seller.EntityName AS "Business Name",
    ReceiptTable.Highest_Price AS "Highest Price",
    ReceiptTable.Total_Sales AS "Total Sale",
    ReceiptTable.StateName AS "State"
FROM Receipt_Table AS ReceiptTable
INNER JOIN Entity_Table AS Seller ON ReceiptTable.Seller_Key = Seller.Entity_ID
INNER JOIN Entity_Table AS Buyer ON ReceiptTable.Buyer_Key = Buyer.Entity_ID;
```

## the output it produced

Customer name	Business Name	Highest Price	Total Sale	State
Mr. Ray L. Hyatt Jr.	Kroger	5.00	25.00	KY
Michael Stacy	The Home Depot	6.99	30.00	KY
Tony Stark	Chick-fil-A	13.37	29.75	KY
Tag Howard	Target	12.00	36.04	KY
John Wick	DV8 Kitchen	15.00	30.02	KY
Dr. Stephen Strange	Kroger	6.49	22.10	KY
Tag Howard	Headliners Music Hall	16.53	16.53	KY
Mr. Ray L. Hyatt Jr.	Kroger	23.00	47.44	KY
President Eli Capilouto	Culver's	9.99	25.00	KY
Bob Porter c/o Intech	Magic Kingdom Park	15.99	78.25	FL
Bob C. Smith	Walmart Supercenter	20.83	57.80	KY
Tag Howard	Target	30.67	80.97	KY
Michael Stacy	Jersey Mike's Subs	15.60	40.28	KY
Michael Stacy	Busch Stadium	36213.35	36217.34	DC
Pentagon	White House	705392000000.00	705392000000.00	DC

# Deliverable 9

## the query you wrote

```
SELECT
    COUNT(EntityName) as 'Total Count'
FROM
    Entity_Table
WHERE
    -- Based on https://www.kalzumeus.com/2010/06/17/falsehoods-programmers-believe-about-names/ there is no reliable way to determine if a name is a first name or last name.
    EntityName LIKE '%Bo%';
```

## the output it produced

Total Count
7

# Deliverable 10

## the query you wrote

```
SELECT Zip,
    Total_Sales AS "Total Sales"
FROM Receipt_Table
ORDER BY Total_Sales DESC;
```

## the output it produced

Zip	Total Sales
-----	-------------

20301	705392000000.00	
20500	36217.34	
40508	80.97	
32830	78.25	
40511	57.80	
40503	47.44	
40527	40.28	
40509	36.04	
40504	30.02	
40504	30.00	
40502	29.75	
40509	25.00	
40503	25.00	
40503	22.10	
40508	16.53	
+-----+-----+		

## Deliverable 11

Show the commands you used to do this and place these in your submission.

```
/usr/bin/mysqldump -h mysql.cs.uky.edu -p -u jtho264 --single-transaction --databases jtho264 > cs405.group3.sql
```

## Deliverable 12

The information we had at hand influenced the project in several ways. For example, as mentioned in deliverable 1, we read the entire assignment before beginning. We did this to ensure all complexities of the assignment were understood before starting, allowing us to meet project requirements. Due to this, we formatted our receipt table to include the highest and lowest-valued items from the beginning. We may not have included these values in the initial table creation if we had not known this information. Despite reading the entire assignment beforehand, our stereotypical college student haste meant we missed and misinterpreted some details of the project initially. Our initial design did not include the ability to store multiple phone numbers per entity. Addressing this, we repurposed our initial phone number column in the entity table as our primary phone number and made it a foreign key to a new table, ensuring each entity only had one primary phone number while allowing multiple non-primary phone numbers. The new table stored all phone numbers associated with an entity ID. Based on what we learned, information availability can influence how database projects start and evolve over time. At times, previous knowledge helped our team complete the project more efficiently; however, essential details can be missed if too much information is presented simultaneously in the design plan. We experienced information overload in the second example. From the experience gained, we believe a company needs to plan sufficiently to allow a database to evolve by providing adequate information to complete tasks with room to grow.