

A.

1.

a.

1NF

DONUTORDERS	
PK	Donut Order ID
PK	Donut ID
	Customer ID Order Date First Name Last Name Street Address Apartment City State Zip Code Home Phone Mobile Phone Other Phone Qty of Donuts Donut Name Donut Description Unit Price Special Handling Notes

- i. First, I took all data present in “Sales form” and created an un-normalized list. From there I figure out that some attributes are related, they are: Donut ID, Donut Name, Donut Description, Unit Price, and they all depends on Donut ID. And all other attributes depend on Donut Order ID. So, I make both Donut ID and Donut Order ID as a composite key to identify all attributes in this “DONUTORDERS” table. The table is in 1st Normal Form and the values in each column is atomic and there is not repeating groups. All attributes are now depending on composite key Donut Order ID and Donut ID.

1.

b.

2nf

DONUTORDERS	
PK	Donut Order ID
	Customer ID Order Date First Name Last Name Street Address Apartment City State Zip Code Home Phone Mobile Phone Other Phone Qty of Donuts Special Handling Notes

ORDERITEMS		
PK	Donut Order ID	FK
PK	Donut ID	FK
	Qty of Donuts	

DONUTINFO	
PK	Donut ID
	Donut Name Donut Description Unit Price

I.

Conversion to 2NF occurs when we eliminate partial dependencies. By looking at “DONUTORDERS” table that I created in last part I realize that not all attributes depend entirely on combination of Donut Order ID and Donut ID composite key and this violates the 2nd normal form. To solve this issue, I created 3 table by breaking the first normal form table by identifying the primary keys and their dependent attributes. The attributes that are dependent in a partial dependency are removed from the original table and placed in the new table with the dependency's determinant. Because Qty of Donuts is dependent on both Donut Order ID and Donut ID in the “ORDERITEMS” table, I leave that in the “ORDERITEMS” table. In addition, by using composite primary key Donut Order ID and Donut ID, primary key/foreign key relationships have been created. By creating three tables all partial dependencies have been removed and no attribute is dependent on only a portion of the primary key.

C.

3NF

CUSTOMERINFO		
PK	Customer ID	INTEGER
	First Name	VARCHAR
	Last Name	VARCHAR
	Street Address	VARCHAR
	Apartment	VARCHAR
	City	VARCHAR
	State	VARCHAR
	Zip Code	VARCHAR
	Home Phone	VARCHAR
	Mobile Phone	VARCHAR
	Other Phone	VARCHAR

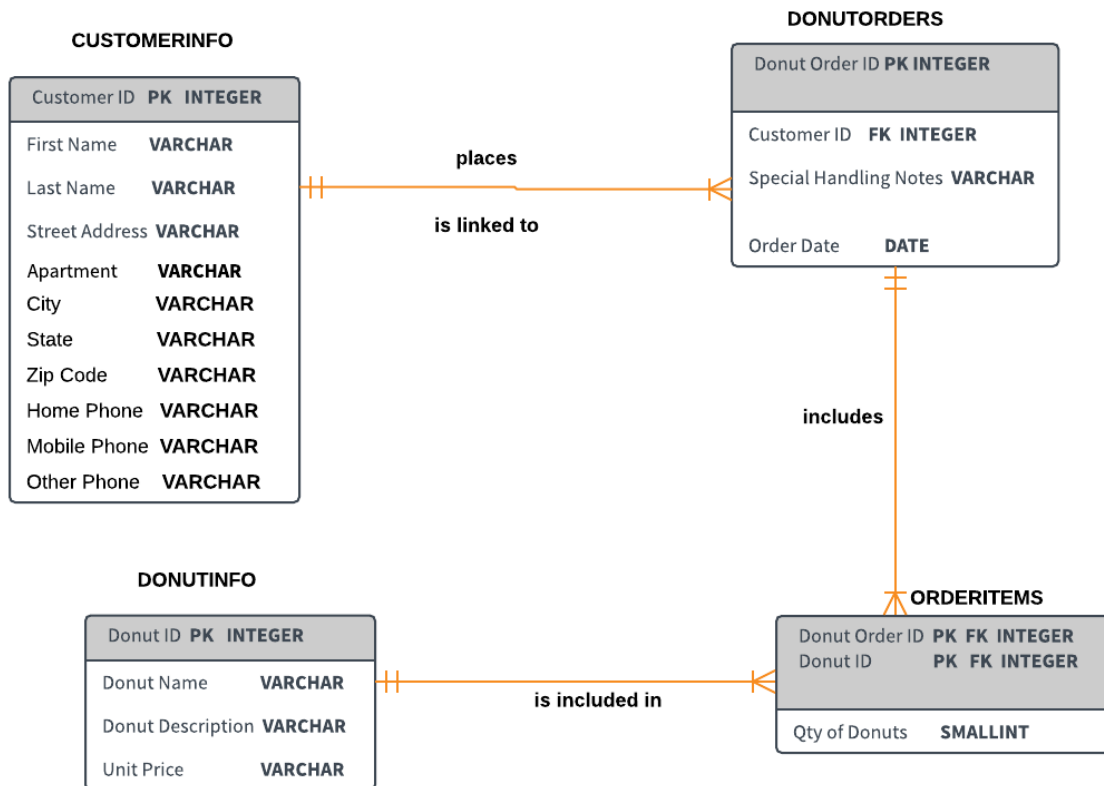
DONUTINFO		
PK	Donut ID	INTEGER
	Donut Name	VARCHAR
	Donut Description	VARCHAR
	Unit Price	VARCHAR

ORDERITEMS		
PK	Donut Order ID	FK INTEGER
PK	Donut ID	FK INTEGER
	Qty of Donuts	SMALLINT

DONUTORDERS		
PK	Donut Order ID	INTEGER
FK	Customer ID	INTEGER
	Special Handling Notes	VARCHAR
	Order Date	DATE

C. I took the table from 2NF and remove all transitive dependencies. Tables I created in 2nd NF still have some transitive dependency. For Instance, "DONUTORDERS" table contain attribute Customer ID which can be used to determine other attributes such as first name as well as other fields. So, I break down "DONUTORDERS" table and created 4th table "CUSTOMER INFO" to remove all transitive dependency.

B



The entities were selected from the data normalization process and will be used to hold different types of data. The relationships were determined based on data types. Each entity will be used to hold different types of data. For Instance, "CUSTOMERINFO" table will be used to hold only customer data. "DONUTORDERS" table will be used to hold only order details. "ORDERITEMS" table will give us more information about order. Lastly, "DONUTINFO" table will be used to hold only donut information.

B4B

Relationships are determined by how entities are associated with one another. Relationships are identified by the business process.

- Customer (customerInfo) places DonutOrder
- Each DonutOrder is linked to Customer (CustomerInfo)

A customer to a seller can be the one who purchases service from him. For every DonutOrder a customer places he is given a Donut Order ID. Donut Order ID is a unique number and it must be different for every order. Thus, if a customer place more than one separate DonutOrders he will have more than one Donut Order ID. On the other hand, each DonutOrders must-be linked to a single customer, so we can separate different Customer Orders and keep a record of each order.

- DonutOrders includes OrderItems
- OrderItems is included in DonutOrders

OrderItems are the items in a DonutOrder. When a customer places DonutOrders it can include one (plain) or more (gazed, cinnamon) Items (OrderItems). All those items need to be recorded and the customer is given a single Donut Order ID for each order.

- OrderItems includes Donut (DonutInfo)

- Donut (DonutInfo) is included in OrderItems

Since a customer can buy one or more items (donuts) at once and get a single DonutOrderID then there will be a one-to-many relationship between DonutInfo and OrderItems. For each item in the DonutInfo table purchased by a customer, its own record (Qty) needs to appear in the Order Items table. On the other side, to prevent a shortage of donuts and to force customers to try different types of donuts each customer is only allowed to order one donut of each type.

C. Relationships

- Each “CUSTOMERINFO” may have 1 or many “DONUTORDERS”, but each “DONUTORDERS” must exactly belong to one “CUSTOMERINFO”.
- Each “DONUTORDERS” may have 1 or many “ORDERITEMS”, but each “ORDERITEMS” must belong to exactly one “DONUTORDERS”.
- Each “DONUTINFO” may have 1 or many “ORDERITEMS”, but each “ORDERITEMS” must belong to exactly one “DONUTINFO”.

C.

SQL code

/*CREATING CUSTOMER INFO TABLE */

```
CREATE TABLE `CUSTOMERINFO` (
  `Customer ID` INT AUTO_INCREMENT NOT NULL ,
  `First Name` VARCHAR(300) NOT NULL,
  `Last Name` VARCHAR(300) NOT NULL ,
  `Street Address` VARCHAR(300) NOT NULL ,
  `Apartment` VARCHAR(300),
```



```
`City` VARCHAR(300) NOT NULL,  
`State` VARCHAR(300)NOT NULL,  
`Zip Code` VARCHAR(300) NOT NULL,  
`Home Phone` VARCHAR(300),  
`Mobile Phone` VARCHAR(300),  
`Other Phone` VARCHAR(300),  
PRIMARY KEY(`Customer ID`)  
);
```

/* DONUT ORDERS TABLE */

```
CREATE TABLE `DONUTORDERS`(  
`Donut Order ID` INT AUTO_INCREMENT NOT NULL ,  
`Customer ID` INT NOT NULL,  
`Special Handling Notes` VARCHAR(300),  
`Order Date` DATE NOT NULL ,  
PRIMARY KEY(`Donut Order ID`),  
FOREIGN KEY(`Customer ID`) REFERENCES `CUSTOMERINFO`(`Customer ID`)  
);
```

/*DONUT INFO TABLE */

```
CREATE TABLE `DONUTINFO`(  
`Donut ID` INT AUTO_INCREMENT NOT NULL,  
`Donut Name` VARCHAR(100) NOT NULL,  
`Donut Description` VARCHAR(100) NOT NULL,  
`Unit Price` VARCHAR(100)NOT NULL ,  
PRIMARY KEY(`Donut ID`)  
);
```

/*ORDER ITEMS TABLE */

```
CREATE TABLE `ORDERITEMS`(  

```

```

`Donut Order ID` INT ,

`Donut ID` INT ,

`Qty of Donuts` SMALLINT ,

PRIMARY KEY(`Donut Order ID`,`Donut ID`),

FOREIGN KEY(`Donut ID`)REFERENCES `DONUTINFO`(`Donut ID`)

ON DELETE NO ACTION ON UPDATE NO ACTION,

FOREIGN KEY (`Donut Order ID`)REFERENCES `DONUTORDERS`(`Donut Order ID`)

);

```

The screenshot shows the SQL Fiddle web application interface. The browser tabs include 'SQL Fiddle', 'SQL Fiddle', and 'Subnetting Made Easy'. The address bar shows 'sqlfiddle.com/#19/31fe0'. The page title is 'SQL Fiddle' and the database is set to 'MySQL 5.6'. The SQL editor contains the following code:

```

1 CREATE TABLE `CUSTOMERINFO` (
2   `Customer ID` INT AUTO_INCREMENT NOT NULL ,
3   `First Name` VARCHAR(300) NOT NULL,
4   `Last Name` VARCHAR(300) NOT NULL ,
5   `Street Address` VARCHAR(300) NOT NULL ,
6   `Apartment` VARCHAR(300),
7   `City` VARCHAR(300) NOT NULL,
8   `State` VARCHAR(300) NOT NULL,
9   `Zip Code` VARCHAR(300) NOT NULL,
10  `Home Phone` VARCHAR(300),
11  `Mobile Phone` VARCHAR(300),
12  `Other Phone` VARCHAR(300),
13  PRIMARY KEY(`Customer ID`)
14 );
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```

The interface includes buttons for 'Build Schema', 'Edit Fullscreen', 'Browser', 'Run SQL', 'Edit Fullscreen', 'Format Code', and 'Schema Ready' status is shown at the bottom.

SQL Fiddle x SQL Fiddle x

sqlfiddle.com/#19/61939

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SQL Fiddle MySQL 5.6 View Sample Fiddle Clear Text to DDL Donate About

```
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66      /*DONUT ORDERS TABLE */
67  CREATE TABLE `DONUTORDERS`(
68    `Donut Order ID` INT AUTO_INCREMENT NOT NULL ,
69    `Customer ID` INT NOT NULL,
70    `Special Handling Notes` VARCHAR(300),
71    `Order Date` DATE NOT NULL ,
72    PRIMARY KEY(`Donut Order ID`),
73    FOREIGN KEY(`Customer ID`) REFERENCES `CUSTOMERINFO`(`Customer ID`)
74  );
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```

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```

Build Schema Edit Fullscreen Browser [.]

Run SQL Edit Fullscreen Formal Code [.]

Schema Ready

Type here to search

8/28/2017 3:36 PM

SQL Fiddle x SQL Fiddle x

sqlfiddle.com/#!9/313541

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SQL Fiddle MySQL 5.6 View Sample Fiddle Clear Text to DDL Donate About

```
39
40
41  /*DONUT INFO TABLE */
42  CREATE TABLE `DONUTINFO` (
43    `Donut ID` INT AUTO_INCREMENT NOT NULL,
44    `Donut Name` VARCHAR(100) NOT NULL,
45    `Donut Description` VARCHAR(100) NOT NULL,
46    `Unit Price` VARCHAR(100) NOT NULL ,
47    PRIMARY KEY(`Donut ID`)
48  );
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```

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Build Schema Edit Fullscreen Browser [;] Run SQL Edit Fullscreen Format Code [;]

Schema Ready

SQL Fiddle

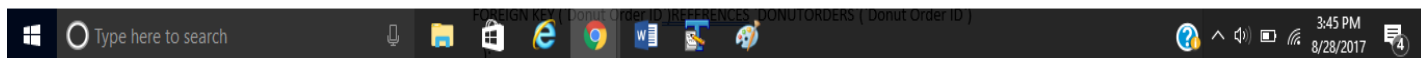
MySQL 5.6

```
101
102 /*ORDER ITEMS TABLE */
103 CREATE TABLE `ORDERITEMS` (
104   `Donut Order ID` INT ,
105   `Donut ID` INT ,
106   `Qty of Donuts` SMALLINT ,
107   PRIMARY KEY(`Donut Order ID`,`Donut ID`),
108   FOREIGN KEY(`Donut ID`)REFERENCES `DONUTINFO`(`Donut ID`)
109   ON DELETE NO ACTION ON UPDATE NO ACTION,
110   FOREIGN KEY (`Donut Order ID`)REFERENCES `DONUTORDERS`(`Donut Order ID`)
111 );
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```

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Build Schema Edit Fullscreen Browser [;] Run SQL Edit Fullscreen Format Code [;]

Schema Ready



D

CREATE VIEW `CustomerRecord` AS

```
SELECT `Customer ID`, CONCAT(`First Name`, " ", `Last Name`) AS `Full Name`, `Street Address`,  
`Apartment`, `City`, `State`, `Zip Code`, `Home Phone`, `Mobile Phone`, `Other Phone`  
FROM `CUSTOMERINFO`;
```

SQL Fiddle

SQL Fiddle

sqlfiddle.com/#19/9a3c2f

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SQL Fiddle MySQL 5.6 View Sample Fiddle Clear Text to DDL Donate About

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```
CREATE VIEW `CustomerRecord` AS
SELECT `Customer ID`, CONCAT(`First Name`, " ", `Last Name`) AS `Full Name`, `Street Address`,
`Apartment`, `City`, `State`, `Zip Code`, `Home Phone`, `Mobile Phone`, `Other Phone`
FROM `CUSTOMERINFO`;
```

1

Query Panel

Use this panel to try to solve the problem with other SQL statements (SELECTs, etc...). Results will be displayed below. Share your queries by copying and pasting the URL that is generated after each run.

Build Schema Edit Fullscreen Browser [;]

Run SQL Edit Fullscreen Format Code [;]

Schema Ready

Windows

Type here to search

3:54 PM
8/28/2017

SQL Fiddle

sqlfiddle.com/#19/9a3c2f/1

MySQL 5.6

View Sample Fiddle Clear Text to DDL

Donate About

```

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134 CREATE VIEW `CustomerRecord` AS
135 SELECT `Customer ID`, CONCAT(`First Name`, " ", `Last Name`) AS `Full Name`, `Street Address`,
136 `Apartment`, `City`, `State`, `Zip Code`, `Home Phone`, `Mobile Phone`, `Other Phone`
137 FROM `CUSTOMERINFO`;
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149

```

```

1 SELECT * FROM CustomerRecord;

```

Build Schema Edit Fullscreen Browser [.]

Run SQL Edit Fullscreen Format Code [.]

Customer ID	Full Name	Street Address	Apartment	City	State	Zip Code	Home Phone	Mobile Phone	Other Phone
1	James Bond	456 Water ST	3	Fairfax	VA	22987	571-227-7654	702-765-8654	898-654-4433
2	John Kennedy	3700 K ST NW	8	Washington	DC	76543	202-654-7644	543-765-2199	457-764-2399
3	Mark Henry	8543 Cindy Lane	T4	Baltimore	MD	686989	865-432-5432	971-675-4736	356-876-4533

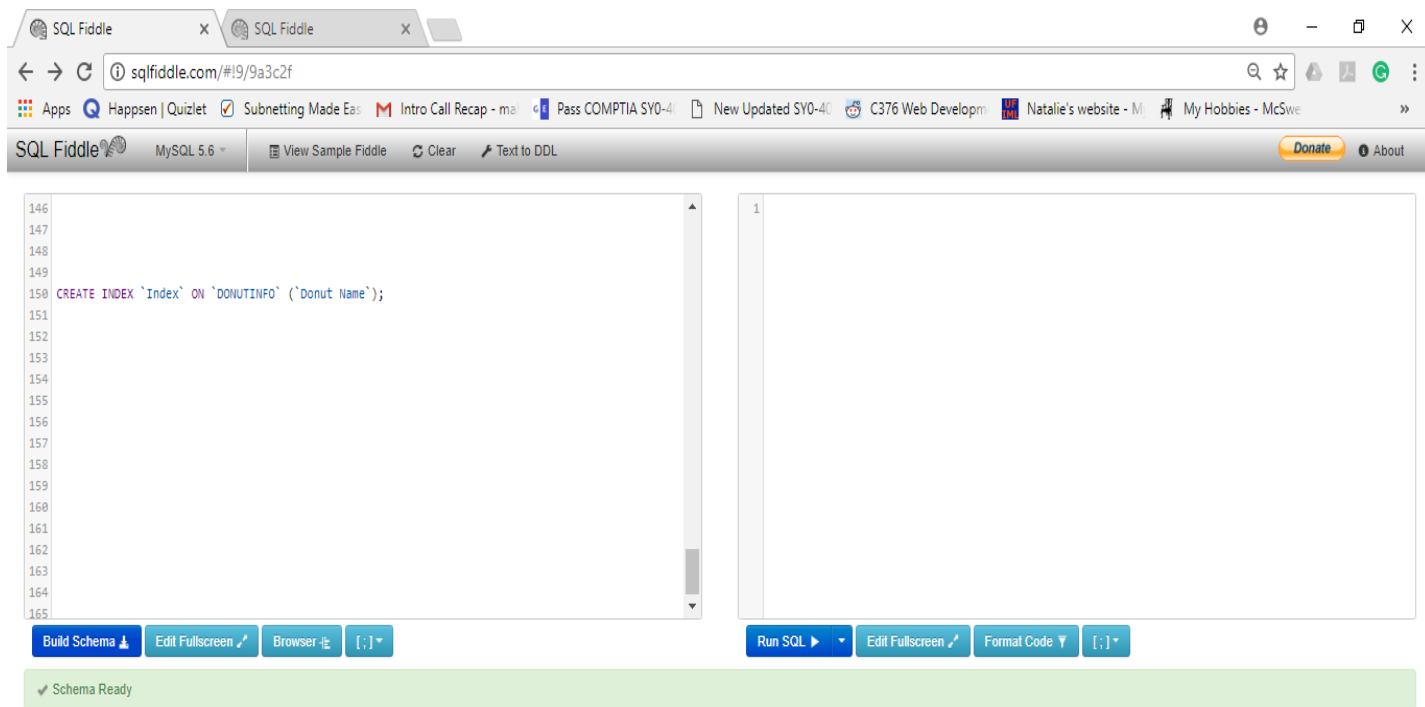
Record Count: 3; Execution Time: 1ms View Execution Plan link

Did this query solve the problem? If so, consider donating \$5 to help make sure SQL Fiddle will be here next time you need help with a database problem. Thanks!

Type here to search

3:53 PM 8/28/2017

E1 CREATE INDEX `Index` ON `DONUTINFO` (`Donut Name`);



F

1

/*CUSTOMER INFO TABLE CODE */

INSERT INTO `CUSTOMERINFO`(`First Name`, `Last Name`, `Street Address`,

Apartment, City, State, `Zip Code`, `Home Phone`, `Mobile Phone`, `Other Phone`)

VALUES

('James', 'Bond', '456 Water ST', '3', 'Fairfax', 'VA', '22987',

'571-227-7654', '702-765-8654', '898-654-4433');

INSERT INTO `CUSTOMERINFO`(`First Name`, `Last Name`, `Street Address`,

Apartment, City, State, `Zip Code`, `Home Phone`, `Mobile Phone`, `Other Phone`)

VALUES

('John', 'Kennedy', '3700 K ST NW', '8', 'Washington', 'DC', '76543',
'202-654-7644', '543-765-2199', '457-764-2399');

INSERT INTO `CUSTOMERINFO`(`First Name`, `Last Name`, `Street Address`,
Apartment, City, State, `Zip Code`, `Home Phone`, `Mobile Phone`, `Other Phone`)

VALUES

('Mark', 'Henry', '8543 Cindy Lane', 'T4', 'Baltimore', 'MD', '686989',
'865-432-5432', '971-675-4736', '356-876-4533');

/*DONUT INFO TABLE CODES*/

INSERT INTO `DONUTINFO`(`Donut Name`, `Donut Description`, `Unit Price`) VALUES
('Plain', 'Plain Donut', '1.50');

INSERT INTO `DONUTINFO`(`Donut Name`, `Donut Description`, `Unit Price`) VALUES
('Glazed', 'Glazed Donut', '1.75');

INSERT INTO `DONUTINFO`(`Donut Name`, `Donut Description`, `Unit Price`) VALUES
('Cinnamon', 'Cinnamon Donut', '1.75');

INSERT INTO `DONUTINFO`(`Donut Name`, `Donut Description`, `Unit Price`) VALUES
('Chocolate', 'Chocolate Donut', '1.75');

INSERT INTO `DONUTINFO`(`Donut Name`, `Donut Description`, `Unit Price`) VALUES
('Sprinkle', 'Sprinkle Donut', '1.75');

INSERT INTO `DONUTINFO`(`Donut Name`, `Donut Description`, `Unit Price`) VALUES
('Gluten-Free', 'Gluten-Free Donut', '2.00');

/*DONUT ORDERS TABLE CODES*/

INSERT INTO `DONUTORDERS`(`Customer ID`, `Special Handling Notes`, `Order Date`) VALUES
(1, 'Please include plates and napkins', NOW());

INSERT INTO `DONUTORDERS`(`Customer ID`, `Special Handling Notes`, `Order Date`) VALUES
(2, 'Please include plates and napkins', NOW());

```
INSERT INTO `DONUTORDERS`(`Customer ID`, `Special Handling Notes`, `Order Date`) VALUES  
(1,'Please include plates and napkins', NOW());
```

/*ORDER ITEMS TABLE CODES*/

```
INSERT INTO `ORDERITEMS` (`Donut Order ID`, `Donut ID`, `Qty of Donuts`) VALUES(1,1,1);  
INSERT INTO `ORDERITEMS` (`Donut Order ID`, `Donut ID`, `Qty of Donuts`) VALUES(1,2,5);  
INSERT INTO `ORDERITEMS` (`Donut Order ID`, `Donut ID`, `Qty of Donuts`) VALUES(1,3,12);  
INSERT INTO `ORDERITEMS` (`Donut Order ID`, `Donut ID`, `Qty of Donuts`) VALUES(1,4,3);  
INSERT INTO `ORDERITEMS` (`Donut Order ID`, `Donut ID`, `Qty of Donuts`) VALUES(1,5,4);  
INSERT INTO `ORDERITEMS` (`Donut Order ID`, `Donut ID`, `Qty of Donuts`) VALUES(1,6,5);
```

SQL Fiddle

SQL Fiddle

SQL Fiddle

sqlfiddle.com/#19/9a3c2f

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SQL Fiddle MySQL 5.6 View Sample Fiddle Clear Text to DDL Donate About

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```
INSERT INTO `CUSTOMERINFO`(`First Name`,`Last Name`,`Street Address`,
    Apartment, City, State, `Zip Code`, `Home Phone`, `Mobile Phone`, `Other Phone`)
VALUES
    ('James','Bond', '456 Water ST', '3', 'Fairfax', 'VA', '22987',
    '571-227-7654', '702-765-8654', '898-654-4433');

INSERT INTO `CUSTOMERINFO`(`First Name`,`Last Name`,`Street Address`,
    Apartment, City, State, `Zip Code`, `Home Phone`, `Mobile Phone`, `Other Phone`)
VALUES
    ('John','Kennedy', '3700 K ST NW', '8', 'Washington', 'DC', '76543',
    '202-654-7644', '543-765-2199', '457-764-2399');

INSERT INTO `CUSTOMERINFO`(`First Name`,`Last Name`,`Street Address`,
    Apartment, City, State, `Zip Code`, `Home Phone`, `Mobile Phone`, `Other Phone`)
VALUES
    ('Mark','Henry', '8543 Cindy Lane', 'T4', 'Baltimore', 'MD', '686989',
    '865-432-5432', '971-675-4736', '356-876-4533');
```

Build Schema Edit Fullscreen Browser [;]

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Run SQL Edit Fullscreen Format Code [;]

Schema Ready

Windows Start Search Type here to search

File Explorer Edge Chrome Word Excel PowerPoint

Taskbar Icons: Network, Volume, Battery, Date/Time: 4:12 PM 8/28/2017

SQL Fiddle

sqlfiddle.com/#19/9a3c2f

MySQL 5.6

View Sample Fiddle Clear Text to DDL

Donate About

```
56
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59      /*DONUT INFO TABLE CODES*/
60  INSERT INTO `DONUTINFO`(`Donut Name`, `Donut Description`, `Unit Price`) VALUES
61  ('Plain', 'Plain Donut', '1.50');
62  INSERT INTO `DONUTINFO`(`Donut Name`, `Donut Description`, `Unit Price`) VALUES
63  ('Glazed', 'Glazed Donut', '1.75');
64  INSERT INTO `DONUTINFO`(`Donut Name`, `Donut Description`, `Unit Price`) VALUES
65  ('Cinnamon', 'Cinnamon Donut', '1.75');
66  INSERT INTO `DONUTINFO`(`Donut Name`, `Donut Description`, `Unit Price`) VALUES
67  ('Chocolate', 'Chocolate Donut', '1.75');
68  INSERT INTO `DONUTINFO`(`Donut Name`, `Donut Description`, `Unit Price`) VALUES
69  ('Sprinkle', 'Sprinkle Donut', '1.75');
70  INSERT INTO `DONUTINFO`(`Donut Name`, `Donut Description`, `Unit Price`) VALUES
71  ('Gluten-Free', 'Gluten-Free Donut', '2.00');
72
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```

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Build Schema Edit Fullscreen Browser Run SQL Edit Fullscreen Formal Code

Schema Ready

Windows taskbar showing search bar, taskbar icons (File Explorer, Mail, Edge, Chrome, Word, etc.), system tray (help, volume, network, battery), and date/time (4:13 PM 8/28/2017).

SQL Fiddle

SQL Fiddle

sqlfiddle.com/#!9/9a3c2f

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SQL Fiddle MySQL 5.6 View Sample Fiddle Clear Text to DDL Donate About

```
90
91
92 /*DONUT ORDERS TABLE CODES*/
93 INSERT INTO `DONUTORDERS`(`Customer ID`, `Special Handling Notes`, `Order Date`) VALUES
94 (1,'Please include plates and napkins', NOW());
95 INSERT INTO `DONUTORDERS`(`Customer ID`, `Special Handling Notes`, `Order Date`) VALUES
96 (2,'Please include plates and napkins', NOW());
97 INSERT INTO `DONUTORDERS`(`Customer ID`, `Special Handling Notes`, `Order Date`) VALUES
98 (1,'Please include plates and napkins', NOW());
99
100
101
102 /*ORDER ITEMS TABLE */
103 CREATE TABLE `ORDERITEMS` (
104   `Donut Order ID` INT ,
105   `Donut ID` INT ,
106   `Qty of Donuts` SMALLINT ,
107   PRIMARY KEY(`Donut Order ID`,`Donut ID`),
108   FOREIGN KEY(`Donut ID`) REFERENCES `DONUTINFO`(`Donut ID`)
109   ON DELETE NO ACTION ON UPDATE NO ACTION,

```

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Build Schema Edit Fullscreen Browser [;] Run SQL Edit Fullscreen Format Code [;]

Schema Ready

SQL Fiddle MySQL 5.6 View Sample Fiddle Clear Text to DDL Donate About

```
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121  
122 /*ORDER ITEMS TABLE CODES*/  
123 INSERT INTO `ORDERITEMS` (`Donut Order ID`, `Donut ID`, `Qty of Donuts`) VALUES(1,1,1);  
124 INSERT INTO `ORDERITEMS` (`Donut Order ID`, `Donut ID`, `Qty of Donuts`) VALUES(1,2,5);  
125 INSERT INTO `ORDERITEMS` (`Donut Order ID`, `Donut ID`, `Qty of Donuts`) VALUES(1,3,12);  
126 INSERT INTO `ORDERITEMS` (`Donut Order ID`, `Donut ID`, `Qty of Donuts`) VALUES(1,4,3);  
127 INSERT INTO `ORDERITEMS` (`Donut Order ID`, `Donut ID`, `Qty of Donuts`) VALUES(1,5,4);  
128 INSERT INTO `ORDERITEMS` (`Donut Order ID`, `Donut ID`, `Qty of Donuts`) VALUES(1,6,5);  
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```

Build Schema Edit Fullscreen Browser [;]

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Run SQL Edit Fullscreen Format Code [;]

✓ Schema Ready



G1

SELECT * FROM CUSTOMERINFO;

SELECT * FROM DONUTINFO;

SELECT * FROM DONUTORDERS;

SELECT * FROM ORDERITEMS;

G2

```

1 CREATE TABLE `CUSTOMERINFO` (
2   `Customer ID` INT AUTO_INCREMENT NOT NULL ,
3   `First Name` VARCHAR(300) NOT NULL,
4   `Last Name` VARCHAR(300) NOT NULL ,
5   `Street Address` VARCHAR(300) NOT NULL ,
6   `Apartment` VARCHAR(300),
7   `City` VARCHAR(300) NOT NULL,
8   `State` VARCHAR(300) NOT NULL,
9   `Zip Code` VARCHAR(300) NOT NULL,
10  `Home Phone` VARCHAR(300),
11  `Mobile Phone` VARCHAR(300),
12  `Other Phone` VARCHAR(300),
13  PRIMARY KEY(`Customer ID`)
14 );
15
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```

```

1 SELECT * FROM CUSTOMERINFO;

```

Build Schema Edit Fullscreen Browser [:]

Run SQL Edit Fullscreen Format Code [:]

Customer ID	First Name	Last Name	Street Address	Apartment	City	State	Zip Code	Home Phone	Mobile Phone	Other Phone
1	James	Bond	456 Water ST	3	Fairfax	VA	22987	571-227-7654	702-765-8654	898-654-4433
2	John	Kennedy	3700 K ST NW	8	Washington	DC	76543	202-654-7644	543-765-2199	457-764-2399
3	Mark	Henry	8543 Cindy Lane	T4	Baltimore	MD	686989	865-432-5432	971-675-4736	356-876-4533

Record Count: 3; Execution Time: 1ms View Execution Plan link

Did this query solve the problem? If so, consider donating \$5 to help make sure SQL Fiddle will be here next time you need help with a database problem. Thanks!

SQL Fiddle

SQL Fiddle

sqlfiddle.com/#19/151ca252/1

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SQL Fiddle MySQL 5.6 View Sample Fiddle Clear Text to DDL Donate About

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```
/*DONUT INFO TABLE */
CREATE TABLE `DONUTINFO` (
  `Donut ID` INT AUTO_INCREMENT NOT NULL,
  `Donut Name` VARCHAR(100) NOT NULL,
  `Donut Description` VARCHAR(100) NOT NULL,
  `Unit Price` VARCHAR(100)NOT NULL ,
  PRIMARY KEY(`Donut ID`)
);
```

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```
SELECT * FROM DONUTINFO;
```

Build Schema Edit Fullscreen Browser [.]

Run SQL Edit Fullscreen Format Code [.]

Donut ID	Donut Name	Donut Description	Unit Price
1	Plain	Plain Donut	1.50
2	Glazed	Glazed Donut	1.75
3	Cinnamon	Cinnamon Donut	1.75
4	Chocolate	Chocolate Donut	1.75
5	Sprinkle	Sprinkle Donut	1.75
6	Gluten-Free	Gluten-Free Donut	2.00

Record Count: 6; Execution Time: 7ms View Execution Plan link

Windows Search Type here to search

File Explorer Edge Chrome Word PowerPoint Paint

Taskbar: File Explorer, Word, PowerPoint, Paint, Task View, Network, Volume, Bluetooth, 4:51 PM, 8/28/2017


```

78
79      /*DONUT ORDERS TABLE */
80      CREATE TABLE `DONUTORDERS`(
81        `Donut Order ID` INT AUTO_INCREMENT NOT NULL ,
82        `Customer ID` INT NOT NULL,
83        `Special Handling Notes` VARCHAR(300),
84        `Order Date` DATE NOT NULL ,
85        PRIMARY KEY(`Donut Order ID`),
86        FOREIGN KEY(`Customer ID`) REFERENCES `CUSTOMERINFO`(`Customer ID`)
87      );
88
89      /*DONUT ORDERS TABLE CODES*/
90      INSERT INTO `DONUTORDERS`(`Customer ID`, `Special Handling Notes`, `Order Date`) VALUES
91      (1,'Please include plates and napkins', NOW());
92      INSERT INTO `DONUTORDERS`(`Customer ID`, `Special Handling Notes`, `Order Date`) VALUES
93      (2,'Please include plates and napkins', NOW());
94      INSERT INTO `DONUTORDERS`(`Customer ID`, `Special Handling Notes`, `Order Date`) VALUES
95      (1,'Please include plates and napkins', NOW());
96

```

```

1
2
3
4
5
6
7
8 SELECT * FROM DONUTORDERS;

```

Build Schema Edit Fullscreen Browser [;]

Run SQL Edit Fullscreen Format Code [;]

Donut Order ID	Customer ID	Special Handling Notes	Order Date
1	1	Please include plates and napkins	2017-08-28
2	2	Please include plates and napkins	2017-08-28
3	1	Please include plates and napkins	2017-08-28

✔ Record Count: 3; Execution Time: 4ms + View Execution Plan ➡ link

Did this query solve the problem? If so, consider donating \$5 to help make sure SQL Fiddle will be here next time you need help with a database problem. Thanks!

SQL Fiddle

sqlfiddle.com/#19/0c28a8/1

MySQL 5.6

```

99  /*ORDER ITEMS TABLE */
100 CREATE TABLE `ORDERITEMS` (
101   `Donut Order ID` INT ,
102   `Donut ID` INT ,
103   `Qty of Donuts` SMALLINT ,
104   PRIMARY KEY(`Donut Order ID`,`Donut ID`),
105   FOREIGN KEY(`Donut ID`)REFERENCES `DONUTINFO`(`Donut ID`)
106   ON DELETE NO ACTION ON UPDATE NO ACTION,
107   FOREIGN KEY (`Donut Order ID`)REFERENCES `DONUTORDERS`(`Donut Order ID`)
108   );
109
110 /*ORDER ITEMS TABLE CODES*/
111 INSERT INTO `ORDERITEMS` (`Donut Order ID`,`Donut ID`,`Qty of Donuts`) VALUES(1,1,1);
112 INSERT INTO `ORDERITEMS` (`Donut Order ID`,`Donut ID`,`Qty of Donuts`) VALUES(1,2,5);
113 INSERT INTO `ORDERITEMS` (`Donut Order ID`,`Donut ID`,`Qty of Donuts`) VALUES(1,3,12);
114 INSERT INTO `ORDERITEMS` (`Donut Order ID`,`Donut ID`,`Qty of Donuts`) VALUES(1,4,3);
115 INSERT INTO `ORDERITEMS` (`Donut Order ID`,`Donut ID`,`Qty of Donuts`) VALUES(1,5,4);
116 INSERT INTO `ORDERITEMS` (`Donut Order ID`,`Donut ID`,`Qty of Donuts`) VALUES(1,6,5);
117

```

```

1
2
3
4
5
6
7
8 SELECT * FROM ORDERITEMS;

```

Build Schema Edit Fullscreen Browser [;]

Run SQL Edit Fullscreen Format Code [;]

Donut Order ID	Donut ID	Qty of Donuts
1	1	1
1	2	5
1	3	12
1	4	3
1	5	4
1	6	5

Record Count: 6; Execution Time: 4ms View Execution Plan link

SELECT CUSTOMERINFO.`Customer ID`, CUSTOMERINFO.`First Name`, CUSTOMERINFO.`Last Name`,
CUSTOMERINFO.`Street Address`, CUSTOMERINFO.`Apartment`, CUSTOMERINFO.`City`,
CUSTOMERINFO.State,
CUSTOMERINFO.`Zip Code`,CUSTOMERINFO.`Home Phone`, CUSTOMERINFO.`Mobile Phone`,
CUSTOMERINFO.`Other Phone`,DONUTORDERS.`special Handling Notes`,DONUTORDERS.`Order Date`,
DONUTORDERS.`Donut Order ID`,DONUTINFO.`Donut ID`, DONUTINFO.`Donut Name`,

```

DONUTINFO.`Donut Description`, ORDERITEMS.`Qty of Donuts`, DONUTINFO.`Unit Price`

FROM CUSTOMERINFO JOIN DONUTORDERS

ON CUSTOMERINFO.`Customer ID`=DONUTORDERS.`Customer ID`

JOIN ORDERITEMS

ON DONUTORDERS.`Donut Order ID`=ORDERITEMS.`Donut Order ID`

JOIN DONUTINFO

ON ORDERITEMS.`Donut ID`=DONUTINFO.`Donut ID`;

```

SQL Fiddle

MySQL 5.6

```

83 PRIMARY KEY(`Donut Order ID`,`Donut ID`),
84 FOREIGN KEY(`Donut ID`)REFERENCES `DONUTINFO`(`Donut ID`)
85 ON DELETE NO ACTION ON UPDATE NO ACTION,
86 FOREIGN KEY(`Donut Order ID`)REFERENCES `DONUTORDERS`(`Donut Order ID`)
87 );
88
89 /*ORDER ITEMS TABLE CODES*/
90 INSERT INTO `ORDERITEMS` (`Donut Order ID`,`Donut ID`,`Qty of Donuts`) VALUES(1,1,1);
91 INSERT INTO `ORDERITEMS` (`Donut Order ID`,`Donut ID`,`Qty of Donuts`) VALUES(1,2,5);
92 INSERT INTO `ORDERITEMS` (`Donut Order ID`,`Donut ID`,`Qty of Donuts`) VALUES(1,3,12);
93 INSERT INTO `ORDERITEMS` (`Donut Order ID`,`Donut ID`,`Qty of Donuts`) VALUES(1,4,3);
94 INSERT INTO `ORDERITEMS` (`Donut Order ID`,`Donut ID`,`Qty of Donuts`) VALUES(1,5,4);
95 INSERT INTO `ORDERITEMS` (`Donut Order ID`,`Donut ID`,`Qty of Donuts`) VALUES(1,6,5);

```

```

8 SELECT CUSTOMERINFO.`Customer ID`, CUSTOMERINFO.`First Name`, CUSTOMERINFO.`Last Name`,
9 CUSTOMERINFO.`Street Address`, CUSTOMERINFO.`Apartment`, CUSTOMERINFO.`City`, CUSTOMERINFO.`State`,
10 CUSTOMERINFO.`Zip Code`,CUSTOMERINFO.`Home Phone`, CUSTOMERINFO.`Mobile Phone`,
11 CUSTOMERINFO.`Other Phone`,DONUTORDERS.`special Handling Notes`,DONUTORDERS.`Order Date`,
12 DONUTORDERS.`Donut Order ID`,DONUTINFO.`Donut ID`, DONUTINFO.`Donut Name`,
13 DONUTINFO.`Donut Description`, ORDERITEMS.`Qty of Donuts`, DONUTINFO.`Unit Price`
14 FROM CUSTOMERINFO JOIN DONUTORDERS
15 ON CUSTOMERINFO.`Customer ID`=DONUTORDERS.`customer ID`
16 JOIN ORDERITEMS
17 ON DONUTORDERS.`Donut Order ID`=ORDERITEMS.`Donut Order ID`
18 JOIN DONUTINFO
19 ON ORDERITEMS.`Donut ID`=DONUTINFO.`Donut ID`;
20

```

Build Schema Edit Fullscreen Browser Run SQL Edit Fullscreen Format Code

Customer ID	First Name	Last Name	Street Address	Apartment	City	State	Zip Code	Home Phone	Mobile Phone	Other Phone	special Handling Notes	Order Date	Donut Order ID	Donut ID	Donut Name	Donut Description	Qty of Donuts	Unit Price
1	James	Bond	456 Water ST	3	Fairfax	VA	22987	571-227-7654	702-765-8654	898-654-4433	Please include plates and napkins	2017-08-28	1	1	Plain	Plain Donut	1	1.50
1	James	Bond	456 Water ST	3	Fairfax	VA	22987	571-227-7654	702-765-8654	898-654-4433	Please include plates and napkins	2017-08-28	1	2	Glazed	Glazed Donut	5	1.75
1	James	Bond	456 Water ST	3	Fairfax	VA	22987	571-227-7654	702-765-8654	898-654-4433	Please include plates and napkins	2017-08-28	1	3	Cinnamon	Cinnamon Donut	12	1.75
1	James	Bond	456 Water ST	3	Fairfax	VA	22987	571-227-7654	702-765-8654	898-654-4433	Please include plates and napkins	2017-08-28	1	4	Chocolate	Chocolate Donut	3	1.75
1	James	Bond	456 Water ST	3	Fairfax	VA	22987	571-227-7654	702-765-8654	898-654-4433	Please include plates and napkins	2017-08-28	1	5	Sprinkle	Sprinkle Donut	4	1.75
1	James	Bond	456 Water ST	3	Fairfax	VA	22987	571-227-7654	702-765-8654	898-654-4433	Please include plates and napkins	2017-08-28	1	6	Gluten-Free	Gluten-Free Donut	5	2.00

Record Count: 6; Execution Time: 6ms View Execution Plan link