

AutoSave OFF Nora's Bagel Bin Database Blueprints — Saved to my Mac

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Nora's Bagel Bin Database Blueprints *(continued)*

Second Normal Form (2NF)

BAGEL ORDER	
PK	Bagel Order ID
	Order Date
	First Name
	Last Name
	Address 1
	Address 2
	City
	State
	Zip
	Mobile Phone
	Delivery Fee
	Special Notes

BAGEL ORDER LINE ITEM	
PK / FK	Bagel Order ID
PK / FK	Bagel ID
	Bagel Quantity

BAGEL	
PK	Bagel ID
	Bagel Name
	Bagel Description
	Bagel Price

1:M M:1

One bagel order can have many Bagel line items (And many bagel order line items can go on the same order)

A bagel order line item can only have one bagel, but one bagel can be associated with many bagel order line items.

The bagel table should include all information about the bagel (that is related to the bagel ID primary Key).

The bagel order line item should contain all information about the order (That relates to the Bagel Order ID).

The Bagel Quantity belongs in the bagel order line item as that is not dependent on either the Bagel ID or the Bagel order ID.

Page 2 of 6 484 words English (United States) Focus 150%

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Third Normal Form (3NF)

Bagel Order	
PK	Bagel Order ID
FK	Customer ID
	Delivery Fee
	Order Date
	Special Notes

BAGEL ORDER LINE ITEM	
PK / FK	Bagel Order ID
PK / FK	Bagel ID
	Bagel Quantity

BAGEL	
PK	Bagel ID
	Bagel Name
	Bagel Description
	Bagel Price

Customer Information	
PK	Customer ID
	First Name
	Last Name
	Address 1
	Address 2
	City
	State
	Zip
	Mobile Phone

1:M M:1 M:1

Building on the 2NF table, for the 3NF table we need to move all of the customer information to its own table. This is because the customer information does not rely on the Bagel Order ID. We then need to create a Primary Key for the Customers table and assign it as a Foreign Key in the Bagel Order Table.

One customer can be associated with many Bagel orders, however a bagel order can only have one customer.

One bagel order can have many Bagel line items (And many bagel order line items can go on the same order)

A bagel order line item can only have one bagel, but one bagel can be associated with many bagel order line items.

Page 4 of 6 484 words English (United States) Focus 150%

Schema SQL ●

Query successfully executed in 19ms X

```
1 CREATE TABLE COFFEE_SHOP (  
2   shop_id INTEGER,  
3   shop_name VARCHAR(50),  
4   city VARCHAR(50),  
5   state CHAR(2),  
6   PRIMARY KEY (shop_id)  
7 );  
8  
9 CREATE TABLE EMPLOYEE (  
10  employee_id INTEGER,  
11  first_name VARCHAR(10),  
12  last_name VARCHAR(10),  
13  hire_date DATE,  
14  job_title VARCHAR(30),  
15  PRIMARY KEY(employee_id),  
16  shop_id INTEGER,  
17  FOREIGN KEY (shop_id) REFERENCES COFFEE_SHOP(shop_id)  
18 );  
19  
20 CREATE TABLE SUPPLIER (  
21  supplier_id INTEGER,  
22  company_name VARCHAR(30),  
23  country VARCHAR(30),  
24  sales_contact_name VARCHAR(60),  
25  email VARCHAR(50) NOT NULL,  
26  PRIMARY KEY (supplier_id)  
27 );  
28  
29 CREATE TABLE COFFEE (  
30  coffee_id INTEGER,  
31  shop_id INTEGER,  
32  supplier_id INTEGER,  
33  coffee_name VARCHAR(10),  
34  price_per_pound NUMERIC(5,2),  
35  PRIMARY KEY (coffee_id),  
36  FOREIGN KEY (shop_id) REFERENCES COFFEE_SHOP(shop_id),  
37  FOREIGN KEY (supplier_id) REFERENCES SUPPLIER(supplier_id)  
38 );
```

Database: MySQL v5.7

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Schema SQL

1 CREATE TABLE COFFEE_SHOP (
2 shop_id INTEGER,
3 shop_name VARCHAR(50),
4 city VARCHAR(50),
5 state CHAR(2),
6 PRIMARY KEY (shop_id)
7);
8 CREATE TABLE EMPLOYEE (
9 employee_id INTEGER,
10 first_name VARCHAR(30),
11 last_name VARCHAR(30),
12 hire_date DATE,
13 job_title VARCHAR(30),
14 PRIMARY KEY (employee_id),
15 shop_id INTEGER,
16 FOREIGN KEY (shop_id) REFERENCES COFFEE_SHOP(shop_id)
17);
18
19 CREATE TABLE SUPPLIER (
20 supplier_id INTEGER,
21 company_name VARCHAR(30),
22 country VARCHAR(30),
23
24)

Text to DDL

Query SQL

1 SELECT * FROM COFFEE_SHOP;
2 SELECT * FROM EMPLOYEE;
3 SELECT * FROM COFFEE;
4 SELECT * FROM SUPPLIER;

Query successfully executed in 20ms

Results

Copy as Markdown

Query #1 Execution time: 1ms

shop_id	shop_name	city	state
1	Coava	San Diego	CA
2	Three Ships	Virginia Beach	VA
3	Ritual	San Francisco	CA

Query #2 Execution time: 0ms

employee_id	first_name	last_name	hire_date	job_title	shop_id
1	John	Doe	2000-07-31	CEO	1

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Database: MySQL v5.7

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Schema SQL

15 shop_id INTEGER,
16 FOREIGN KEY (shop_id) REFERENCES COFFEE_SHOP(shop_id)
17);
18
19 CREATE TABLE SUPPLIER (
20 supplier_id INTEGER,
21 company_name VARCHAR(30),
22 country VARCHAR(30),
23 sales_contact_name VARCHAR(60),
24 email VARCHAR(50) NOT NULL,
25 PRIMARY KEY (supplier_id)
26);
27
28 CREATE TABLE COFFEE (
29 coffee_id INTEGER,
30 shop_id INTEGER,
31 supplier_id INTEGER,
32 coffee_name VARCHAR(30),
33 price_per_pound NUMERIC(5,2),
34 PRIMARY KEY (coffee_id),
35 FOREIGN KEY (shop_id) REFERENCES COFFEE_SHOP(shop_id),
36 FOREIGN KEY (supplier_id) REFERENCES SUPPLIER(supplier_id)
37)

Text to DDL

Query SQL

1 SHOW CREATE VIEW CONCATEMPLOYEE;

Query successfully executed in 18ms

Results

Copy as Markdown

Query #1 Execution time: 0ms

View	Create View	character_set_client	collation_connection
CONCATEMPLOYEE	CREATE ALGORITHM=UNDEFINED DEFINER='root@localhost' SQL SECURITY DEFINER VIEW 'CONCATEMPLOYEE' AS select 'EMPLOYEE','employee_id' AS 'employee_id','concat_ws('','EMPLOYEE','first_name','EMPLOYEE','last_name)' AS 'full_name','EMPLOYEE','hire_date' AS 'hire_date','EMPLOYEE','job_title' AS 'job_title','EMPLOYEE','shop_id' AS 'shop_id' from 'EMPLOYEE'	utf8mb4	utf8mb4_general_ci

Sourcegraph

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Schema SQL

19 CREATE TABLE SUPPLIER (
20 supplier_id INTEGER,
21 company_name VARCHAR(30),
22 country VARCHAR(30),
23 sales_contact_name VARCHAR(60),
24 email VARCHAR(50) NOT NULL,
25 PRIMARY KEY (supplier_id)
26);
27
28 CREATE TABLE COFFEE (
29 coffee_id INTEGER,
30 shop_id INTEGER,
31 supplier_id INTEGER,
32 coffee_name VARCHAR(30),
33 price_per_pound NUMERIC(5,2),
34 PRIMARY KEY (coffee_id),
35 FOREIGN KEY (shop_id) REFERENCES COFFEE_SHOP(shop_id),
36 FOREIGN KEY (supplier_id) REFERENCES SUPPLIER(supplier_id)
37);
38
39 INSERT INTO COFFEE_SHOP
40 VALUES
41 (1, 'Coffee', 'Coca-Cola', '1234')

Text to DDL

Query SQL

1 SHOW INDEX FROM COFFEE;

Query successfully executed in 70ms

Results

Copy as Markdown

Query #1 Execution time: 1ms

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment
COFFEE	0	PRIMARY	1	coffee_id	A	3	null	null		BTREE		
COFFEE	1	shop_id	1	shop_id	A	3	null	null	YES	BTREE		
COFFEE	1	supplier_id	1	supplier_id	A	3	null	null	YES	BTREE		
COFFEE	1	COFFEENAME	1	coffee_name	A	3	null	null	YES	BTREE		

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Schema SQL

19 CREATE TABLE SUPPLIER (
20 supplier_id INTEGER,
21 company_name VARCHAR(30),
22 country VARCHAR(30),
23 sales_contact_name VARCHAR(60),
24 email VARCHAR(50) NOT NULL,
25 PRIMARY KEY (supplier_id)
26);
27
28 CREATE TABLE COFFEE (
29 coffee_id INTEGER,
30 shop_id INTEGER,
31 supplier_id INTEGER,
32 coffee_name VARCHAR(30),
33 price_per_pound NUMERIC(5,2),
34 PRIMARY KEY (coffee_id),
35 FOREIGN KEY (shop_id) REFERENCES COFFEE_SHOP(shop_id),
36 FOREIGN KEY (supplier_id) REFERENCES SUPPLIER(supplier_id)
37);
38
39 INSERT INTO COFFEE_SHOP
40 VALUES
41 (1, 'Coffee', 'Coca-Cola', '1234')

Text to DDL

Query SQL

1 SELECT coffee_name FROM COFFEE WHERE shop_id

Query successfully executed in 72ms

Results

Copy as Markdown

Query #1 Execution time: 0ms

coffee_name
Coffee 1

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Database: MySQL v5.7

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Schema SQL

```
19 CREATE TABLE SUPPLIER (
20   supplier_id INTEGER,
21   company_name VARCHAR(30),
22   country VARCHAR(30),
23   sales_contact_name VARCHAR(60),
24   email VARCHAR(50) NOT NULL,
25   PRIMARY KEY (supplier_id)
26 );
27
28 CREATE TABLE COFFEE (
29   coffee_id INTEGER,
30   shop_id INTEGER,
31   supplier_id INTEGER,
32   coffee_name VARCHAR(30),
33   price_per_pound NUMERIC(5,2),
34   PRIMARY KEY (coffee_id),
35   FOREIGN KEY (shop_id) REFERENCES COFFEE_SHOP(shop_id),
36   FOREIGN KEY (supplier_id) REFERENCES SUPPLIER(supplier_id)
37 );
38
39 INSERT INTO COFFEE_SHOP
40 VALUES
41 (1, 'Coava', 'San Diego', 'CA',
42  1, 'Coffee 1', 50.03,
43  1, 'Company 1', 'Columbia', 'John Doe', 'Jdoe@gmail.com')
44
45 (2, 'Three Ships', 'Virginia Beach', 'VA',
46  2, 'Coffee 2', 60.40,
47  2, 'Company 2', 'Mexico', 'Smith Doe', 'SDoe@yahoo.com')
48
49 (3, 'Ritual', 'San Francisco', 'CA',
50  3, 'Coffee 3', 70.30,
51  3, 'Company 3', 'Paraguay', 'James Ware', 'Jware@aol.com')
```

Text to DDL

Query SQL

Query successfully executed in 92ms

```
1 SELECT S.*, C.*, P.*
2 FROM COFFEE_SHOP S
3 INNER JOIN
4 COFFEE C ON S.shop_id = C.shop_id
5 INNER JOIN
6 SUPPLIER P ON P.supplier_id= C.supplier_id;
```

Results

Copy as Markdown

Query #1 Execution time: 9ms

shop_id	shop_name	city	state	coffee_id	shop_id	supplier_id	coffee_name	price_per_pound	supplier_id	company_name	country	sales_contact_name	email
1	Coava	San Diego	CA	1	1	1	Coffee 1	50.03	1	Company 1	Columbia	John Doe	Jdoe@gmail.com
2	Three Ships	Virginia Beach	VA	2	2	2	Coffee 2	60.40	2	Company 2	Mexico	Smith Doe	SDoe@yahoo.com
3	Ritual	San Francisco	CA	3	3	3	Coffee 3	70.30	3	Company 3	Paraguay	James Ware	Jware@aol.com

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Schema SQL

```
19 CREATE TABLE SUPPLIER (
20   supplier_id INTEGER,
21   company_name VARCHAR(30),
22   country VARCHAR(30),
23   sales_contact_name VARCHAR(60),
24   email VARCHAR(50) NOT NULL,
25   PRIMARY KEY (supplier_id)
26 );
27
28 CREATE TABLE COFFEE (
29   coffee_id INTEGER,
30   shop_id INTEGER,
31   supplier_id INTEGER,
32   coffee_name VARCHAR(30),
33   price_per_pound NUMERIC(5,2),
34   PRIMARY KEY (coffee_id),
35   FOREIGN KEY (shop_id) REFERENCES COFFEE_SHOP(shop_id),
36   FOREIGN KEY (supplier_id) REFERENCES SUPPLIER(supplier_id)
37 );
38
39 INSERT INTO COFFEE_SHOP
40 VALUES
41 (1, 'Coava', 'San Diego', 'CA',
42  1, 'Coffee 1', 50.03,
43  1, 'Company 1', 'Columbia', 'John Doe', 'Jdoe@gmail.com')
44
45 (2, 'Three Ships', 'Virginia Beach', 'VA',
46  2, 'Coffee 2', 60.40,
47  2, 'Company 2', 'Mexico', 'Smith Doe', 'SDoe@yahoo.com')
48
49 (3, 'Ritual', 'San Francisco', 'CA',
50  3, 'Coffee 3', 70.30,
51  3, 'Company 3', 'Paraguay', 'James Ware', 'Jware@aol.com')
```

Text to DDL

Query SQL

Query successfully executed in 70ms

```
1 SELECT S.*, C.*, P.*
2 FROM COFFEE_SHOP S
3 INNER JOIN
4 COFFEE C ON S.shop_id = C.shop_id
5 INNER JOIN
6 SUPPLIER P ON P.supplier_id= C.supplier_id;
7
8 SHOW CREATE VIEW CONCATEMPLOYEE;
9 SHOW INDEX FROM COFFEE;
10
11 SELECT * FROM COFFEE_SHOP;
12 SELECT * FROM EMPLOYEE;
13 SELECT * FROM COFFEE;
14 SELECT * FROM SUPPLIER;
15
16 SELECT S.*, C.*, P.*
17 FROM COFFEE_SHOP S
18 INNER JOIN
19 COFFEE C ON S.shop_id = C.shop_id
20 INNER JOIN
21 SUPPLIER P ON P.supplier_id= C.supplier_id;
```

Results

Copy as Markdown

Query #1 Execution time: 1ms

shop_id	shop_name	city	state	coffee_id	shop_id	supplier_id	coffee_name	price_per_pound	supplier_id	company_name	country	sales_contact_name	email
1	Coava	San Diego	CA	1	1	1	Coffee 1	50.03	1	Company 1	Columbia	John Doe	Jdoe@gmail.com
2	Three Ships	Virginia Beach	VA	2	2	2	Coffee 2	60.40	2	Company 2	Mexico	Smith Doe	SDoe@yahoo.com
3	Ritual	San Francisco	CA	3	3	3	Coffee 3	70.30	3	Company 3	Paraguay	James Ware	Jware@aol.com

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Query #2 Execution time: 0ms

View	Create View	character_set_client	collation_connection
CONCATEMPLOYEE	CREATE ALGORITHM=UNDEFINED DEFINER='root'@'localhost' SQL SECURITY DEFINER VIEW 'CONCATEMPLOYEE' AS select 'EMPLOYEE.'employee_id AS 'employee_id',concat_ws(' ',EMPLOYEE.`first_name`,`EMPLOYEE.`last_name`) AS 'full_name','EMPLOYEE.'hire_date AS 'hire_date','EMPLOYEE.'job_title AS 'job_title','FMP1' NVFF 'shn id' AS 'shn id' from 'FMP1' NVFF	utf8mb4	utf8mb4_general_ci

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SQL Code:

```
CREATE TABLE COFFEE_SHOP (  
  shop_id INTEGER,  
  shop_name VARCHAR(50),  
  city VARCHAR(50),  
  state CHAR(2),  
  PRIMARY KEY (shop_id)  
);
```

```
CREATE TABLE EMPLOYEE (  
  employee_id INTEGER,  
  first_name VARCHAR(30),  
  last_name VARCHAR(30),  
  hire_date DATE,  
  job_title VARCHAR(30),  
  PRIMARY KEY(employee_id),  
  shop_id INTEGER,  
  FOREIGN KEY (shop_id) REFERENCES COFFEE_SHOP(shop_id)  
);
```

```
CREATE TABLE SUPPLIER (  
  supplier_id INTEGER,  
  company_name VARCHAR(30),  
  country VARCHAR(30),  
  sales_contact_name VARCHAR(60),  
  email VARCHAR(50) NOT NULL,  
  PRIMARY KEY (supplier_id)  
);
```

```
CREATE TABLE COFFEE (  
  coffee_id INTEGER,  
  shop_id INTEGER,  
  supplier_id INTEGER,  
  coffee_name VARCHAR(30),  
  price_per_pound NUMERIC(5,2),  
  PRIMARY KEY (coffee_id),  
  FOREIGN KEY (shop_id) REFERENCES COFFEE_SHOP(shop_id),  
  FOREIGN KEY (supplier_id) REFERENCES SUPPLIER(supplier_id)  
);
```

```
INSERT INTO COFFEE_SHOP  
VALUES  
(1, 'Coava', 'San Diego', 'CA'),  
(2, 'Three Ships', 'Virginia Beach', 'VA'),
```

```
(3, 'Ritual', 'San Fransisco', 'CA');
```

```
INSERT INTO EMPLOYEE
```

```
VALUES
```

```
(1, 'John', 'Doe', '2000-07-31', 'CEO', 1),  
(2, 'Smith', 'Doe', '1998-07-22', 'CTO', 2),  
(3, 'James', 'Ware', '2000-06-05', 'CFO', 3);
```

```
INSERT INTO SUPPLIER
```

```
VALUES
```

```
(1, 'Company 1', 'Columbia', 'John Doe', 'Jdoe@gmail.com'),  
(2, 'Company 2', 'Mexico', 'Smith Doe', 'SDoe@yahoo.com'),  
(3, 'Company 3', 'Paraguay', 'James Ware', 'Jware@aol.com');
```

```
INSERT INTO COFFEE
```

```
VALUES
```

```
(1, 1, 1, 'Coffee 1', 50.03),  
(2, 2, 2, 'Coffee 2', 60.40),  
(3, 3, 3, 'Coffee 3', 70.30);
```

```
CREATE VIEW CONCAEMPLOYEE AS
```

```
SELECT employee_id, CONCAT_WS(' ', first_name, last_name) AS full_name, hire_date,  
job_title, shop_id  
FROM EMPLOYEE;
```

```
CREATE INDEX COFFEENAME
```

```
ON COFFEE (coffee_name);
```

SQL Queries:

```
SELECT S.*, C.*, P.*  
FROM COFFEE_SHOP S  
INNER JOIN  
COFFEE C ON S.shop_id = C.shop_id  
INNER JOIN  
SUPPLIER P ON P.supplier_id= C.supplier_id;
```

```
SHOW CREATE VIEW CONCAEMPLOYEE;
```

```
SHOW INDEX FROM COFFEE;
```

```
SELECT * FROM COFFEE_SHOP;  
SELECT * FROM EMPLOYEE;  
SELECT * FROM COFFEE;  
SELECT * FROM SUPPLIER;
```

```
SELECT S.*, C.*, P.*  
FROM COFFEE_SHOP S  
INNER JOIN  
COFFEE C ON S.shop_id = C.shop_id  
INNER JOIN  
SUPPLIER P ON P.supplier_id= C.supplier_id;
```