

## SE 3309 Assignment 3

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<https://github.com/bcdicicco/se3309assignment3.git>

### Question 2:

ingredients

Field	Type	Null	Key	Default	Extra
ingredientNo	int(11)	NO	PRI	NULL	
ingredientName	varchar(30)	YES		NULL	
dateOfPurchase	date	YES		NULL	
dateOfExpirv	date	YES		NULL	
cost	double	YES		NULL	
quantitv	int(11)	YES		NULL	
supplierNo	int(11)	NO	MUL	NULL	

menureference

Field	Type	Null	Key	Default	Extra
menuNo	int(11)	NO	PRI	NULL	
ingredientNo	int(11)	NO	PRI	NULL	

inventory

Field	Type	Null	Key	Default	Extra
inventoryNo	int(11)	NO	PRI	NULL	
inventoryName	varchar(30)	YES		NULL	
quantitv	int(11)	YES		NULL	
cost	double	YES		NULL	
invSupplier	int(11)	NO	MUL	NULL	

orderreferencemenu

Field	Type	Null	Key	Default	Extra
orderNo	int(11)	NO	PRI	NULL	
menuNo	int(11)	NO	PRI	NULL	

restaurantorder

Field	Type	Null	Key	Default	Extra
OrderNo	int(11)	NO	PRI	NULL	
orderTime	time(6)	YES		NULL	
orderDate	date	YES		NULL	

menuitem

Field	Type	Null	Key	Default	Extra
menuNo	int(11)	NO	PRI	NULL	
menuName	varchar(30)	YES		NULL	
cost	double	YES		NULL	
price	double	YES		NULL	

supplier

Field	Type	Null	Key	Default	Extra
supplierNo	int(11)	NO	PRI	NULL	
supplierName	varchar(30)	YES		NULL	
address	varchar(70)	YES		NULL	
phoneNo	char(10)	YES		NULL	

orderreferenceinventory

Field	Type	Null	Key	Default	Extra
orderNo	int(11)	NO	PRI	NULL	
inventoryNo	int(11)	NO	PRI	NULL	

### Question 3:

An insert of a single menuitem into menuitem.

```
1 • INSERT INTO menuItem VALUES (6, "Strawberry_Pie", 1.50, 14.99);
2 • SELECT * FROM menuItem;
```

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Result Grid	Filter Rows:	Edit:	Export/Import:	Wrap C
menuItem	menuItem	cost	price	
1	sidi	5	10	
2	sdi	6	12	
3	oasdi	23	304	
4	ref	123	864	
5	Rasberrv Pie	1.5	14.99	
6	Strawberrv Pie	1.5	14.99	
NULL	NULL	NULL	NULL	

An insert into ingredients of an ingredient with ingredientNo = 2, and the supplierNo taken from the supplier table.

```
1 • INSERT INTO ingredients(ingredientNo, supplierNo)
2   select 2,
3   (select supplierNo from supplier where supplierNo=1) as supplierNo;
4
5 • SELECT * FROM ingredients;
6
```








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ingredientNo	ingredientName	dateOfPurchase	dateOfExpiry	cost	quantity	supplierNo
1	NULL	NULL	NULL	NULL	NULL	1
2	NULL	NULL	NULL	NULL	NULL	1
NULL	NULL	NULL	NULL	NULL	NULL	NULL

An insert into menuItem of a menuItem with incomplete fields.

```
1 • INSERT INTO menuItem(menuNo, menuItemName) VALUES (7, "Pizza");
2 • SELECT * FROM menuItem;
3
```

<

Result Grid   Filter Rows:  | Edit:    | Export/Import:   | Wrap Cell C

	menuNo	menuItemName	cost	price
	1	sidi	5	10
	2	sdi	6	12
	3	oasdi	23	304
	4	ref	123	864
	5	Rasberrv Pie	1.5	14.99
	6	Strawberrv Pie	1.5	14.99
	7	Pizza	NULL	NULL
	NULL	NULL	NULL	NULL

#### Question 4:

Example data in ingredients

	ingredientNo	ingredientName	dateOfPurchase	dateOfExpiry	cost	quantity	supplierNo
	1	NULL	NULL	NULL	NULL	NULL	1
	2	NULL	NULL	NULL	NULL	NULL	1
	3	Desert Evening Primrose	2017-06-18	2018-10-20	1.46	60	17
	4	Shockley's Goldenhead	2017-06-05	2018-08-09	5.28	100	8
	5	Hairy Flatsedoe	2017-04-30	2018-04-29	6.5	7	22
	6	Nipplefruit	2017-02-27	2018-04-29	10.3	85	22
	7	Waianae Range Nehe	2017-09-14	2018-02-08	9.62	94	3
	8	Pin Cherry	2017-08-03	2018-09-04	15.27	36	7
	9	Jenny's Stonecrop	2017-01-23	2018-08-27	6.99	28	20
	10	Oysterleaf	2017-06-14	2018-02-19	6.51	31	7
	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Example data in inventory

	inventoryNo	inventoryName	quantity	cost	invSupplier
	1	Oweawozmdvauvz	95	211.08	7
	2	Foxvtmixabnovt	21	179.38	10
	3	Niztvwlrortbcu	96	319.04	3
	4	Zxvkwwmwcavbi	3	493.39	13
	5	Mmihvmvhlevakn	91	109.95	4
	6	Dkazilrlhdzla	53	284.64	5
	7	Sbxctnnooidida	68	166.61	18
	8	Tlsoddvaboriea	11	46.72	2
	9	Oobvotrlkkefdc	18	229.35	9
	10	Rbsvstznxetvco	65	418.64	8
	NULL	NULL	NULL	NULL	NULL

Example data in menuitem

	menuNo	menuName	cost	price
	1	sidi	5	10
	2	sdi	6	12
	3	oasdi	23	304
	4	ref	123	864
	5	Rasoberry Pie	1.5	14.99
	6	Strawberry Pie	1.5	14.99
	7	Pizza	NULL	NULL
	8	Ofctsuholnakv	2.28	15
	9	Ovatlxrocotzf	6.58	32
	10	Nwliavndanaihi	9	24
	NULL	NULL	NULL	NULL

Example data in menureference

	menuNo	ingredientNo
	5	4
	10	4
	5	6
	6	6
	5	8
	7	8
	5	23
	8	23
	5	25
	9	25
	NULL	NULL

Example data in restaurantorder

	OrderNo	orderTime	orderDate
	1	NULL	NULL
	2	NULL	NULL
	3	22:59:49.000000	2017-11-06
	4	10:58:13.000000	2017-09-26
	5	22:27:06.000000	2017-04-07
	6	16:18:26.000000	2017-10-02
	7	00:15:42.000000	2017-01-25
	8	15:26:58.000000	2017-05-10
	9	07:03:42.000000	2017-08-02
	10	17:19:25.000000	2017-11-13
	NULL	NULL	NULL

Example data in orderreferenceinventory

	orderNo	inventoryNo
	3	32
	3	33
	4	38
	4	39
	5	30
	6	31
	7	23
	8	26
	9	26
	10	11
	10	30
	10	32

Example data in orderreferencemenu

	orderNo	menuNo
	1	1
	1	2
	1	3
	2	1
	2	2
	2	4
	3	32
	3	33
	4	38
	4	39
	5	30
	6	31

Example data in supplier

	supplierNo	supplierName	address	phoneNo
	1	foodPlace	123 Food Street	5191234567
	2	dsd	1203982930 dsiiad	1234567891
	3	Devpoint	98179 Nevada Wav	6892915255
	4	Bluezoom	66747 Blaine Lane	3626891547
	5	Feedfish	192 Lake View Drive	2046628730
	6	Avamm	14 Village Place	5375516197
	7	Jabberbean	64655 Marvland Circle	6847270721
	8	Edoedub	504 Annamark Junction	6913730882
	9	Centizu	56154 Knutson Allev	8175361924
	10	Twitterbeat	62 Main Circle	9121296296
	NULL	NULL	NULL	NULL

### Question 5:

The number of times an ingredient is used in a menu item.

1	•	SELECT ingredientNo, COUNT(menuNo) from menureference
2		GROUP BY ingredientNo;
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Result Grid		
Filter Rows:		
Export:		
Wrap Cell Content:		
ingredientNo	COUNT(menuNo)	
4	2	
6	2	
8	2	
23	2	
25	2	
32	1	
33	1	
34	1	
35	1	
36	1	
37	1	
38	1	
39	1	
40	1	
41	1	
42	1	

Ingredients sorted by soonest expiry date.

ingredientNo	ingredientName	dateOfExpiry
1	NULL	NULL
2	NULL	NULL
14	Yankeeweed	2017-11-29
160	Smallstamen Viper's Buoloss	2017-11-30
360	Basketarass	2017-11-30
404	Water-starwort	2017-12-02
573	Purpleflower Pinkroot	2017-12-02
412	Hvbrid Oak	2017-12-03
456	American Pokeweed	2017-12-03
897	Shrubby Primrose-willow	2017-12-03
949	Lanceleaf Tickseed	2017-12-03
142	Calabash Nutmed	2017-12-04
305	Great Radweed	2017-12-04

Menu items sorted by their profit.

	menuNo	menuName	profit
	4	ref	741
	3	oasdi	281
	102	Anuocvbxatxaax	38.45
	115	Vraezizduwavko	38.23
	74	Gvfsorkolawfvn	37.59
	141	Znawwlfuvaazsl	37.35
	31	Piknxiauasdrvs	37.14
	117	Tanmncvwwurznr	35.87
	205	Fdnsemzaahwvz	35.87
	156	Usdbvlaekitani	35.48
	113	Trarvaaxivmvd	35.47
	197	Iobzoaiihccdu	35.36

The cost of every order.

	orderNo	orderTime	orderDate	subtotal	tax	total
	1	NULL	NULL	326	42.38	368.38
	2	NULL	NULL	886	115.18	1001.18000000000001
	3	22:59:49.000000	2017-11-06	25	3.25	28.25
	4	10:58:13.000000	2017-09-26	45	5.85	50.85
	5	22:27:06.000000	2017-04-07	17	2.21	19.21
	6	16:18:26.000000	2017-10-02	40	5.2	45.2
	7	00:15:42.000000	2017-01-25	36	4.68	40.68
	8	15:26:58.000000	2017-05-10	17	2.21	19.21
	9	07:03:42.000000	2017-08-02	17	2.21	19.21
	10	17:19:25.000000	2017-11-13	54	7.02	61.019999999999996
	11	19:31:21.000000	2017-08-07	40.99	5.328...	46.3187
	12	02:35:46.000000	2017-07-27	NULL	NULL	NULL
	13	11:32:11.000000	2017-03-22	32	4.16	36.16
	14	20:26:34.000000	2017-02-21	14.99	1.9487	16.9387

The number of orders placed between a time period.

	orders_between_time
	56

Orders that have menu items with orderNo > 5.

	orderNo	menuNo
	6	31
	7	23
	8	26
	9	26
	10	11
	10	30
	10	37
	11	6



## Question 6:

### Response to update restaurantorder query

✓	5	16:28:28	update restaurantorder set orderTime = "12:39:32", orderDate = "2017-11-05" where orderN...	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
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### Response to delete menuitem query

✓	10	16:36:33	delete from orderreferencemenu where menuNo in ( select menuitem.menuNo from menuitem...	1 row(s) affected
✓	13	16:37:11	delete from menureference where menuNo in ( select menuitem.menuNo from menuitem wher...	5 row(s) affected
✓	14	16:37:11	delete from menuitem where menuNo = 5	1 row(s) affected

### Response to update menuitem query

✓	7	16:32:43	update menuitem set price = cost * 3	206 row(s) affected Rows matched: 207 Changed: 206 Warnings: 0
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## Question 7:

### Create view responses

✓	21	16:42:53	CREATE VIEW inventoryView AS SELECT inventoryNo, inventoryName, cost, quantity, (qua...	0 row(s) affected
✓	20	16:42:30	CREATE VIEW ingredientView AS SELECT ingredientNo, ingredientName, dateOfPurchase,...	0 row(s) affected
✓	19	16:41:53	CREATE VIEW menuItemView AS SELECT menuNo, menuName, cost, price, (price - cost) ...	0 row(s) affected

### Example data from menuItemview

```
1 • select * from menuItemview limit 10;
```

	menuNo	menuName	cost	price	revenue
	1	sidi	5	15	10
	2	sdi	6	18	12
	3	oasdi	23	69	46
	4	ref	123	369	246
	6	Strawberrv Pie	1.5	4.5	3
	7	Pizza	NULL	NULL	NULL
	8	Ofctrsuholnakv	2.28	6.84	4.5600000000000005
	9	Ovatlxrocztzf	6.58	19.740000000000002	13.160000000000002
	10	Nwliavndonaihi	9	27	18
	11	Gabxvrdvtdcus	5.12	15.36	10.239999999999998

### Example data from ingredientview

```
1 • select * from ingredientview limit 10;
```

	ingredientNo	ingredientName	dateOfPurchase	dateOfExpiry	cost	quantity	value
	1	NULL	NULL	NULL	NULL	NULL	NULL
	2	NULL	NULL	NULL	NULL	NULL	NULL
	3	Desert Evenino Primrose	2017-06-18	2018-10-20	1.46	60	87.6
	4	Shocklev's Goldenhead	2017-06-05	2018-08-09	5.28	100	528
	5	Hairv Flatsedoe	2017-04-30	2018-04-29	6.5	73	474.5
	6	Nipplefruit	2017-02-27	2018-04-29	10.3	85	875.5000000000001
	7	Waianae Ranoë Nehe	2017-09-14	2018-02-08	9.62	94	904.28
	8	Pin Cherrv	2017-08-03	2018-09-04	15.27	36	549.72
	9	Jennv's Stonecrop	2017-01-23	2018-08-27	6.99	28	195.72
	10	Ovsterleaf	2017-06-14	2018-02-19	6.51	31	201.81

Example data from inventoryview

```
1 • select * from inventoryview limit 10;
```

	inventoryNo	inventoryName	cost	quantity	value
1	1	Oweawazmdvauvz	211.08	95	20052.600000000002
2	2	Foxvtmixabnovt	179.38	21	3766.98
3	3	Niztvwlrortbcu	319.04	96	30627.840000000004
4	4	Zxvkwwmwcdavbi	493.39	3	1480.17
5	5	Mmihvmvhlevokn	109.95	91	10005.45
6	6	Dkazilrlhdzla	284.64	53	15085.92
7	7	Sbxctnnpoidida	166.61	68	11329.480000000001
8	8	Tlsoddvaboriea	46.72	11	513.92
9	9	Oobvotrlkkefdc	229.35	18	4128.3
10	10	Rbsvstznxetvco	418.64	65	27211.6

Responses to attempted updates.

```
1 • insert into menuitemview (menuNo, menuName, cost, price)
2 values (208, "ddsgwr", 10, 20);
```

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Output

Action Output

#	Time	Action	Message
1	16:48:32	insert into menuitemview (menuNo, menuName, cost, price) values (208, "ddsgwr", 10, 20)	Error Code: 1471. The target table menuitemview of the INSERT is not insertable-into

```
1 • insert into ingredientview (ingredientNo, ingredientName, dateOfPurchase, dateOfExpiry, cost, quantity)
2 values (2392003, "asdioj", "2017-08-11", "2020-08-11", 10, 10);
```

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Output

Action Output

#	Time	Action	Message
1	16:50:59	insert into ingredientview (ingredientNo, ingredientName, dateOfPurchase, dateOfExpiry, cost, q...	Error Code: 1471. The target table ingredientview of the INSERT is not insertable-into

```
1 • insert into inventoryview (inventoryNo, inventoryName, cost, quantity)
2 values (2392003, "asdioj", 10, 200);
```

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Output

Action Output

#	Time	Action	Message
1	16:52:25	insert into inventoryview (inventoryNo, inventoryName, cost, quantity) values (2392003, "asdioj"...	Error Code: 1471. The target table inventoryview of the INSERT is not insertable-into

None of the updates worked because the views have derived attributes.

**Question 8:**

No, every SQL clause that we learned from class that we tried to use worked.