

You've just been hired as a Data Analyst for the Taste of the World Café, a restaurant that has diverse menu offerings and serves generous portions. **ASSIGNMENT:** The Taste of the World Café debuted a new menu at the start of the year. You've been asked to dig into the customer data to see which menu items are doing well / not well and what the top customers seem to like best. **OBJECTIVES:** 1. Explore the `menu_items` table to get an idea of what's on the new menu. 2. Explore the `order_details` table to get an idea of the data that's been collected. 3. Use both tables to understand how customers are reacting to the new menu.

```
In [17]: %load_ext sql
```

```
The sql extension is already loaded. To reload it, use:
%reload_ext sql
```

```
In [18]: %config SqlMagic.autocommit=True
%sql mysql+mysqlconnector://root:123456@localhost:3306/restaurant_db
```

#1. View the menu items table.

```
In [ ]: %%sql

USE restaurant_db;
SELECT * FROM menu_items;
```

2. Find the number of items on the menu.

```
In [20]: %%sql

SELECT COUNT(*) FROM menu_items;

* mysql+mysqlconnector://root:***@localhost:3306/restaurant_db
1 rows affected.

Out[20]: COUNT(*)
          32
```

3. What are the least and most expensive items on the menu?

```
In [21]: %%sql

SELECT * FROM menu_items
ORDER BY price;

* mysql+mysqlconnector://root:***@localhost:3306/restaurant_db
32 rows affected.
```

Out[21]:

menu_item_id	item_name	category	price
113	Edamame	Asian	5.00
105	Mac & Cheese	American	7.00
106	French Fries	American	7.00
122	Chips & Salsa	Mexican	7.00
103	Hot Dog	American	9.00
114	Potstickers	Asian	9.00
123	Chips & Guacamole	Mexican	9.00
104	Veggie Burger	American	10.50
121	Cheese Quesadillas	Mexican	10.50
111	California Roll	Asian	11.95
115	Chicken Tacos	Mexican	11.95
119	Chicken Torta	Mexican	11.95
101	Hamburger	American	12.95
117	Chicken Burrito	Mexican	12.95
102	Cheeseburger	American	13.95
116	Steak Tacos	Mexican	13.95
120	Steak Torta	Mexican	13.95
108	Tofu Pad Thai	Asian	14.50
124	Spaghetti	Italian	14.50
126	Fettuccine Alfredo	Italian	14.50
112	Salmon Roll	Asian	14.95
118	Steak Burrito	Mexican	14.95
128	Cheese Lasagna	Italian	15.50
129	Mushroom Ravioli	Italian	15.50
107	Orange Chicken	Asian	16.50
132	Eggplant Parmesan	Italian	16.95
109	Korean Beef Bowl	Asian	17.95
110	Pork Ramen	Asian	17.95
125	Spaghetti & Meatballs	Italian	17.95
127	Meat Lasagna	Italian	17.95
131	Chicken Parmesan	Italian	17.95
130	Shrimp Scampi	Italian	19.95

In [22]:

```
%%sql

SELECT * FROM menu_items
ORDER BY price DESC;
```

* mysql+mysqlconnector://root:***@localhost:3306/restaurant_db
32 rows affected.

Out[22]:

menu_item_id	item_name	category	price
130	Shrimp Scampi	Italian	19.95
109	Korean Beef Bowl	Asian	17.95
110	Pork Ramen	Asian	17.95
125	Spaghetti & Meatballs	Italian	17.95
127	Meat Lasagna	Italian	17.95
131	Chicken Parmesan	Italian	17.95
132	Eggplant Parmesan	Italian	16.95
107	Orange Chicken	Asian	16.50
128	Cheese Lasagna	Italian	15.50
129	Mushroom Ravioli	Italian	15.50
112	Salmon Roll	Asian	14.95
118	Steak Burrito	Mexican	14.95
108	Tofu Pad Thai	Asian	14.50
124	Spaghetti	Italian	14.50
126	Fettuccine Alfredo	Italian	14.50
102	Cheeseburger	American	13.95
116	Steak Tacos	Mexican	13.95
120	Steak Torta	Mexican	13.95
101	Hamburger	American	12.95
117	Chicken Burrito	Mexican	12.95
111	California Roll	Asian	11.95
115	Chicken Tacos	Mexican	11.95
119	Chicken Torta	Mexican	11.95
104	Veggie Burger	American	10.50
121	Cheese Quesadillas	Mexican	10.50
103	Hot Dog	American	9.00
114	Potstickers	Asian	9.00
123	Chips & Guacamole	Mexican	9.00
105	Mac & Cheese	American	7.00
106	French Fries	American	7.00
122	Chips & Salsa	Mexican	7.00
113	Edamame	Asian	5.00

How many Italian dishes are on the menu?

In [23]:

```
%%sql

SELECT *
FROM menu_items
WHERE category='ITALIAN'
```

* mysql+mysqlconnector://root:***@localhost:3306/restaurant_db
9 rows affected.

Out[23]:

menu_item_id	item_name	category	price
124	Spaghetti	Italian	14.50
125	Spaghetti & Meatballs	Italian	17.95
126	Fettuccine Alfredo	Italian	14.50
127	Meat Lasagna	Italian	17.95
128	Cheese Lasagna	Italian	15.50
129	Mushroom Ravioli	Italian	15.50
130	Shrimp Scampi	Italian	19.95
131	Chicken Parmesan	Italian	17.95
132	Eggplant Parmesan	Italian	16.95

What are the least and most expensive Italian dishes on the menu?

```
In [24]: %%sql

SELECT *
FROM menu_items
WHERE category='ITALIAN'
ORDER BY price;

* mysql+mysqlconnector://root:***@localhost:3306/restaurant_db
9 rows affected.
```

```
Out[24]:
```

menu_item_id	item_name	category	price
124	Spaghetti	Italian	14.50
126	Fettuccine Alfredo	Italian	14.50
128	Cheese Lasagna	Italian	15.50
129	Mushroom Ravioli	Italian	15.50
132	Eggplant Parmesan	Italian	16.95
125	Spaghetti & Meatballs	Italian	17.95
127	Meat Lasagna	Italian	17.95
131	Chicken Parmesan	Italian	17.95
130	Shrimp Scampi	Italian	19.95

How many dishes are in each category?

```
In [25]: %%sql

SELECT *
FROM menu_items
WHERE category='ITALIAN'
ORDER BY price DESC;

* mysql+mysqlconnector://root:***@localhost:3306/restaurant_db
9 rows affected.
```

```
Out[25]:
```

menu_item_id	item_name	category	price
130	Shrimp Scampi	Italian	19.95
125	Spaghetti & Meatballs	Italian	17.95
127	Meat Lasagna	Italian	17.95
131	Chicken Parmesan	Italian	17.95
132	Eggplant Parmesan	Italian	16.95
128	Cheese Lasagna	Italian	15.50
129	Mushroom Ravioli	Italian	15.50
124	Spaghetti	Italian	14.50
126	Fettuccine Alfredo	Italian	14.50

How many dishes are in each category?

```
In [26]: %%sql

SELECT category, COUNT(menu_item_id) AS num_dishes
FROM menu_items
GROUP BY category;

* mysql+mysqlconnector://root:***@localhost:3306/restaurant_db
4 rows affected.
```

```
Out[26]:
```

category	num_dishes
American	6
Asian	8
Mexican	9
Italian	9

What is the average dish price within each category?

```
In [27]: %%sql

SELECT category, AVG(price) AS avg_price
FROM menu_items
GROUP BY category;

* mysql+mysqlconnector://root:***@localhost:3306/restaurant_db
4 rows affected.
```

Out[27]:

category	avg_price
American	10.066667
Asian	13.475000
Mexican	11.800000
Italian	16.750000

EXPLORE THE ORDERS TABLE

In [28]: %%sql

```
# 1. View the order details table.
SELECT * FROM order_details;
```

* mysql+mysqlconnector://root:***@localhost:3306/restaurant_db
12234 rows affected.

Out[28]:

order_details_id	order_id	order_date	order_time	item_id
1	1	2023-01-01	11:38:36	109
2	2	2023-01-01	11:57:40	108
3	2	2023-01-01	11:57:40	124
4	2	2023-01-01	11:57:40	117
5	2	2023-01-01	11:57:40	129
6	2	2023-01-01	11:57:40	106
7	3	2023-01-01	12:12:28	117
8	3	2023-01-01	12:12:28	119
9	4	2023-01-01	12:16:31	117
10	5	2023-01-01	12:21:30	117
11	6	2023-01-01	12:29:36	101
12	6	2023-01-01	12:29:36	114
13	7	2023-01-01	12:50:37	123
14	8	2023-01-01	12:51:37	123
15	9	2023-01-01	12:52:01	108
16	9	2023-01-01	12:52:01	126
17	9	2023-01-01	12:52:01	110
18	9	2023-01-01	12:52:01	117
19	9	2023-01-01	12:52:01	117
20	9	2023-01-01	12:52:01	129
21	9	2023-01-01	12:52:01	122
22	9	2023-01-01	12:52:01	130
23	9	2023-01-01	12:52:01	132
24	10	2023-01-01	13:00:15	129
25	10	2023-01-01	13:00:15	105
26	11	2023-01-01	13:02:59	101
27	11	2023-01-01	13:02:59	102
28	11	2023-01-01	13:02:59	102
29	11	2023-01-01	13:02:59	113
30	12	2023-01-01	13:04:41	102
31	12	2023-01-01	13:04:41	102
32	12	2023-01-01	13:04:41	104
33	12	2023-01-01	13:04:41	117
34	13	2023-01-01	13:11:55	129
35	14	2023-01-01	13:14:19	114
36	15	2023-01-01	13:33:00	107
37	15	2023-01-01	13:33:00	124
38	15	2023-01-01	13:33:00	121
39	15	2023-01-01	13:33:00	114

...rows are hidden

12195	5356	2023-03-31	18:52:00	126
12196	5356	2023-03-31	18:52:00	111
12197	5357	2023-03-31	18:55:22	113
12198	5357	2023-03-31	18:55:22	106
12199	5358	2023-03-31	19:07:27	101
12200	5358	2023-03-31	19:07:27	128
12201	5358	2023-03-31	19:07:27	105
12202	5358	2023-03-31	19:07:27	131
12203	5359	2023-03-31	19:13:16	113
12204	5359	2023-03-31	19:13:16	121
12205	5360	2023-03-31	19:15:48	116
12206	5361	2023-03-31	19:40:42	103
12207	5361	2023-03-31	19:40:42	113
12208	5362	2023-03-31	19:59:23	101
12209	5362	2023-03-31	19:59:23	114
12210	5363	2023-03-31	20:15:58	119
12211	5363	2023-03-31	20:15:58	120
12212	5363	2023-03-31	20:15:58	122
12213	5363	2023-03-31	20:15:58	123
12214	5364	2023-03-31	20:16:14	116
12215	5364	2023-03-31	20:16:14	103
12216	5364	2023-03-31	20:16:14	104
12217	5364	2023-03-31	20:16:14	118
12218	5365	2023-03-31	20:31:48	117
12219	5365	2023-03-31	20:31:48	129
12220	5365	2023-03-31	20:31:48	130
12221	5366	2023-03-31	21:01:41	108
12222	5366	2023-03-31	21:01:41	111
12223	5366	2023-03-31	21:01:41	111
12224	5366	2023-03-31	21:01:41	122
12225	5367	2023-03-31	21:58:06	119
12226	5368	2023-03-31	21:58:47	101
12227	5368	2023-03-31	21:58:47	128
12228	5368	2023-03-31	21:58:47	113
12229	5368	2023-03-31	21:58:47	118
12230	5369	2023-03-31	22:05:04	109
12231	5369	2023-03-31	22:05:04	129
12232	5369	2023-03-31	22:05:04	120
12233	5369	2023-03-31	22:05:04	122
12234	5370	2023-03-31	22:15:48	122

2. What is the date range of the table?

In [29]: %%sql

```
SELECT MIN(order_date), MAX(order_date) FROM order_details;
```

```
* mysql+mysqlconnector://root:***@localhost:3306/restaurant_db
1 rows affected.
```

Out[29]: MIN(order_date) MAX(order_date)

2023-01-01	2023-03-31
------------	------------

3. How many orders were made within this date range?

In [30]: %%sql

```
SELECT COUNT(DISTINCT order_id) FROM order_details;
```

```
* mysql+mysqlconnector://root:***@localhost:3306/restaurant_db
1 rows affected.
```

```
Out[30]: COUNT(DISTINCT order_id)
5370
```

4. How many items were ordered within this date range?

```
In [31]: %%sql
```

```
SELECT COUNT(*) FROM order_details;
```

```
* mysql+mysqlconnector://root:***@localhost:3306/restaurant_db
1 rows affected.
```

```
Out[31]: COUNT(*)
12234
```

5. Which orders had the most number of items?

```
In [33]: %%sql
```

```
SELECT order_id, COUNT(item_id) AS num_items
FROM order_details
GROUP BY order_id
ORDER BY num_items DESC;
```

```
* mysql+mysqlconnector://root:***@localhost:3306/restaurant_db
5370 rows affected.
```

```
Out[33]: order_id  num_items
330          14
440          14
443          14
1957         14
2675         14
3473         14
4305         14
1274         13
1569         13
1685         13
1734         13
2075         13
2126         13
2188         13
2725         13
3583         13
4482         13
4836         13
5066         13
5200         13
144          12
394          12
740          12
801          12
1096         12
1150         12
1851         12
2547         12
2612         12
2895         12
3187         12
3292         12
3363         12
```

...rows are hidden.

5302	1
5306	1
5308	1
5309	1
5311	1
5313	1
5314	1
5318	1
5323	1
5324	1
5335	1
5338	1
5340	1
5341	1
5342	1
5343	1
5354	1
5355	1
5360	1
5367	1
5370	1
50	0
125	0
147	0
200	0
822	0
1004	0
1044	0
1528	0
1581	0
1680	0
2223	0
2258	0
2357	0
2487	0
2595	0
2614	0
3141	0
3275	0
3352	0
3480	0
3906	0
4196	0
4307	0
4410	0
4558	0
4855	0
4914	0

6. How many orders had more than 12 items?

In [34]: `%%sql`


```
SELECT COUNT(*) FROM

(SELECT order_id, COUNT( item_id) AS num_items
FROM order_details
GROUP BY order_id
HAVING num_items > 12) AS num_orders;
```

* mysql+mysqlconnector://root:***@localhost:3306/restaurant_db
1 rows affected.

Out[34]: COUNT(*)
20

ANALYZE CUSTOMER BEHAVIOR# 1. Combine the menu _ items and order _ details tables into a single table.

In [39]: %%sql

```
SELECT * FROM menu_items;
SELECT * FROM order_details;

SELECT *
FROM order_details od LEFT JOIN menu_items mi
ON od.item_id = mi.menu_item_id;
```

* mysql+mysqlconnector://root:***@localhost:3306/restaurant_db
32 rows affected.
12234 rows affected.
12234 rows affected.

Out[39]:

order_details_id	order_id	order_date	order_time	item_id	menu_item_id	item_name	category	price
1	1	2023-01-01	11:38:36	109	109	Korean Beef Bowl	Asian	17.95
2	2	2023-01-01	11:57:40	108	108	Tofu Pad Thai	Asian	14.50
3	2	2023-01-01	11:57:40	124	124	Spaghetti	Italian	14.50
4	2	2023-01-01	11:57:40	117	117	Chicken Burrito	Mexican	12.95
5	2	2023-01-01	11:57:40	129	129	Mushroom Ravioli	Italian	15.50
6	2	2023-01-01	11:57:40	106	106	French Fries	American	7.00
7	3	2023-01-01	12:12:28	117	117	Chicken Burrito	Mexican	12.95
8	3	2023-01-01	12:12:28	119	119	Chicken Torta	Mexican	11.95
9	4	2023-01-01	12:16:31	117	117	Chicken Burrito	Mexican	12.95
10	5	2023-01-01	12:21:30	117	117	Chicken Burrito	Mexican	12.95
11	6	2023-01-01	12:29:36	101	101	Hamburger	American	12.95
12	6	2023-01-01	12:29:36	114	114	Potstickers	Asian	9.00
13	7	2023-01-01	12:50:37	123	123	Chips & Guacamole	Mexican	9.00
14	8	2023-01-01	12:51:37	123	123	Chips & Guacamole	Mexican	9.00
15	9	2023-01-01	12:52:01	108	108	Tofu Pad Thai	Asian	14.50
16	9	2023-01-01	12:52:01	126	126	Fettuccine Alfredo	Italian	14.50
17	9	2023-01-01	12:52:01	110	110	Pork Ramen	Asian	17.95
18	9	2023-01-01	12:52:01	117	117	Chicken Burrito	Mexican	12.95
19	9	2023-01-01	12:52:01	117	117	Chicken Burrito	Mexican	12.95
20	9	2023-01-01	12:52:01	129	129	Mushroom Ravioli	Italian	15.50
21	9	2023-01-01	12:52:01	122	122	Chips & Salsa	Mexican	7.00
22	9	2023-01-01	12:52:01	130	130	Shrimp Scampi	Italian	19.95
23	9	2023-01-01	12:52:01	132	132	Eggplant Parmesan	Italian	16.95
24	10	2023-01-01	13:00:15	129	129	Mushroom Ravioli	Italian	15.50
25	10	2023-01-01	13:00:15	105	105	Mac & Cheese	American	7.00
26	11	2023-01-01	13:02:59	101	101	Hamburger	American	12.95
27	11	2023-01-01	13:02:59	102	102	Cheeseburger	American	13.95
28	11	2023-01-01	13:02:59	102	102	Cheeseburger	American	13.95
29	11	2023-01-01	13:02:59	113	113	Edamame	Asian	5.00
30	12	2023-01-01	13:04:41	102	102	Cheeseburger	American	13.95
31	12	2023-01-01	13:04:41	102	102	Cheeseburger	American	13.95
32	12	2023-01-01	13:04:41	104	104	Veggie Burger	American	10.50
33	12	2023-01-01	13:04:41	117	117	Chicken Burrito	Mexican	12.95
34	12	2023-01-01	13:11:55	129	129	Mushroom Ravioli	Italian	15.50

12189	5352	2023-03-31	18:04:35	122	122	Chips & Salsa	Mexican	7.00
12190	5353	2023-03-31	18:40:10	113	113	Edamame	Asian	5.00
12191	5353	2023-03-31	18:40:10	122	122	Chips & Salsa	Mexican	7.00
12192	5353	2023-03-31	18:40:10	106	106	French Fries	American	7.00
12193	5354	2023-03-31	18:50:19	102	102	Cheeseburger	American	13.95
12194	5355	2023-03-31	18:51:00	132	132	Eggplant Parmesan	Italian	16.95
12195	5356	2023-03-31	18:52:00	126	126	Fettuccine Alfredo	Italian	14.50
12196	5356	2023-03-31	18:52:00	111	111	California Roll	Asian	11.95
12197	5357	2023-03-31	18:55:22	113	113	Edamame	Asian	5.00
12198	5357	2023-03-31	18:55:22	106	106	French Fries	American	7.00
12199	5358	2023-03-31	19:07:27	101	101	Hamburger	American	12.95
12200	5358	2023-03-31	19:07:27	128	128	Cheese Lasagna	Italian	15.50
12201	5358	2023-03-31	19:07:27	105	105	Mac & Cheese	American	7.00
12202	5358	2023-03-31	19:07:27	131	131	Chicken Parmesan	Italian	17.95
12203	5359	2023-03-31	19:13:16	113	113	Edamame	Asian	5.00
12204	5359	2023-03-31	19:13:16	121	121	Cheese Quesadillas	Mexican	10.50
12205	5360	2023-03-31	19:15:48	116	116	Steak Tacos	Mexican	13.95
12206	5361	2023-03-31	19:40:42	103	103	Hot Dog	American	9.00
12207	5361	2023-03-31	19:40:42	113	113	Edamame	Asian	5.00
12208	5362	2023-03-31	19:59:23	101	101	Hamburger	American	12.95
12209	5362	2023-03-31	19:59:23	114	114	Potstickers	Asian	9.00
12210	5363	2023-03-31	20:15:58	119	119	Chicken Torta	Mexican	11.95
12211	5363	2023-03-31	20:15:58	120	120	Steak Torta	Mexican	13.95
12212	5363	2023-03-31	20:15:58	122	122	Chips & Salsa	Mexican	7.00
12213	5363	2023-03-31	20:15:58	123	123	Chips & Guacamole	Mexican	9.00
12214	5364	2023-03-31	20:16:14	116	116	Steak Tacos	Mexican	13.95
12215	5364	2023-03-31	20:16:14	103	103	Hot Dog	American	9.00
12216	5364	2023-03-31	20:16:14	104	104	Veggie Burger	American	10.50
12217	5364	2023-03-31	20:16:14	118	118	Steak Burrito	Mexican	14.95
12218	5365	2023-03-31	20:31:48	117	117	Chicken Burrito	Mexican	12.95
12219	5365	2023-03-31	20:31:48	129	129	Mushroom Ravioli	Italian	15.50
12220	5365	2023-03-31	20:31:48	130	130	Shrimp Scampi	Italian	19.95
12221	5366	2023-03-31	21:01:41	108	108	Tofu Pad Thai	Asian	14.50
12222	5366	2023-03-31	21:01:41	111	111	California Roll	Asian	11.95
12223	5366	2023-03-31	21:01:41	111	111	California Roll	Asian	11.95
12224	5366	2023-03-31	21:01:41	122	122	Chips & Salsa	Mexican	7.00
12225	5367	2023-03-31	21:58:06	119	119	Chicken Torta	Mexican	11.95
12226	5368	2023-03-31	21:58:47	101	101	Hamburger	American	12.95
12227	5368	2023-03-31	21:58:47	128	128	Cheese Lasagna	Italian	15.50
12228	5368	2023-03-31	21:58:47	113	113	Edamame	Asian	5.00
12229	5368	2023-03-31	21:58:47	118	118	Steak Burrito	Mexican	14.95
12230	5369	2023-03-31	22:05:04	109	109	Korean Beef Bowl	Asian	17.95
12231	5369	2023-03-31	22:05:04	129	129	Mushroom Ravioli	Italian	15.50
12232	5369	2023-03-31	22:05:04	120	120	Steak Torta	Mexican	13.95
12233	5369	2023-03-31	22:05:04	122	122	Chips & Salsa	Mexican	7.00
12234	5370	2023-03-31	22:15:48	122	122	Chips & Salsa	Mexican	7.00

2. What were the least and most ordered items? What categories were they in?

In [46]: `%%sql`

```
SELECT item_name, category, COUNT(order_details_id) AS num_purchases
FROM order_details od
LEFT JOIN menu_items mi ON od.item_id = mi.menu_item_id
GROUP BY item_name, category
```

```
ORDER BY num_purchases;
```

```
* mysql+mysqlconnector://root:***@localhost:3306/restaurant_db  
33 rows affected.
```

Out[46]:

item_name	category	num_purchases
Chicken Tacos	Mexican	123
None	None	137
Potstickers	Asian	205
Cheese Lasagna	Italian	207
Steak Tacos	Mexican	214
Cheese Quesadillas	Mexican	233
Chips & Guacamole	Mexican	237
Veggie Burger	American	238
Shrimp Scampi	Italian	239
Fettuccine Alfredo	Italian	249
Hot Dog	American	257
Meat Lasagna	Italian	273
Salmon Roll	Asian	324
Steak Burrito	Mexican	354
California Roll	Asian	355
Mushroom Ravioli	Italian	359
Pork Ramen	Asian	360
Chicken Parmesan	Italian	364
Spaghetti	Italian	367
Chicken Torta	Mexican	379
Eggplant Parmesan	Italian	420
Chicken Burrito	Mexican	455
Orange Chicken	Asian	456
Chips & Salsa	Mexican	461
Mac & Cheese	American	463
Spaghetti & Meatballs	Italian	470
Steak Torta	Mexican	489
Tofu Pad Thai	Asian	562
French Fries	American	571
Cheeseburger	American	583
Korean Beef Bowl	Asian	588
Edamame	Asian	620
Hamburger	American	622

3. What were the top 5 orders that spent the most money?

In [50]:

```
%%sql  
  
SELECT order_id, SUM(price) AS total_spend  
FROM order_details od LEFT JOIN menu_items mi  
ON od.item_id = mi.menu_item_id  
GROUP BY order_id  
ORDER BY total_spend DESC  
LIMIT 5;
```

```
* mysql+mysqlconnector://root:***@localhost:3306/restaurant_db  
5 rows affected.
```

Out[50]:

order_id	total_spend
440	192.15
2075	191.05
1957	190.10
330	189.70
2675	185.10

4. View the details of the highest spend order. What insights can you gather from the results?

```
In [64]: %%sql

SELECT category, COUNT(item_id) AS num_items
FROM order_details od
LEFT JOIN menu_items mi ON od.item_id = mi.menu_item_id
WHERE order_id = 400
GROUP BY category;

* mysql+mysqlconnector://root:***@localhost:3306/restaurant_db
2 rows affected.
```

Out[64]:

category	num_items
Asian	1
American	1

View the details of the top 5 highest spend orders. What insights can you

```
In [69]: %%sql

SELECT order_id, category, COUNT(item_id) AS num_items
FROM order_details od
LEFT JOIN menu_items mi ON od.item_id = mi.menu_item_id
WHERE order_id IN (440, 2075, 1957, 330, 2675)
GROUP BY order_id, category;

* mysql+mysqlconnector://root:***@localhost:3306/restaurant_db
20 rows affected.
```

Out[69]:

order_id	category	num_items
330	Asian	6
330	American	1
330	Italian	3
330	Mexican	4
440	Mexican	2
440	American	2
440	Italian	8
440	Asian	2
1957	Asian	3
1957	American	3
1957	Italian	5
1957	Mexican	3
2075	Asian	3
2075	Mexican	3
2075	American	1
2075	Italian	6
2675	American	3
2675	Asian	3
2675	Italian	4
2675	Mexican	4

```
In [ ]:
```