

Assignment 8
CS 1103

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Answers:

1)

```
SELECT item_name FROM menu_items
WHERE item_name LIKE '%Coffee%';
```

item_name
Coffee (Original Blend, Dark Roast or Decaf)Small
Coffee (Original Blend, Dark Roast or Decaf)Medium
Coffee (Original Blend, Dark Roast or Decaf)Large
Iced Coffee (Original or Dark Roast)Small
Iced Coffee (Original or Dark Roast)Medium
Iced Coffee (Original or Dark Roast)Large

2)

```
SELECT item_category AS categoryID ,menu_types AS categoryName, COUNT(*) AS
MenuItemCount
FROM menu_items LEFT OUTER JOIN menu_categories
ON menu_items.Item_category=menu_categories.Menu_ID
WHERE menu_types='Hot Beverage' ;
```

categoryID	categoryName	MenuItemCount
11	Hot Beverage	3

3)

```
SELECT DISTINCT item_category,Menu_types,COUNT(*)
FROM menu_items LEFT OUTER JOIN menu_categories
ON menu_items.Item_category=menu_categories.Menu_ID
GROUP BY item_category;
```

item_category	Menu_types	COUNT(*)
11	Hot Beverage	3
12	Cold Beverage	3
13	Handcrafted Sandwich	3

4)

```
SELECT distinct item_name, item_id FROM
line_items NATURAL JOIN menu_items
GROUP BY item_name ;
```

item_name	item_id
Avocado BLT	9
California Turkey	7
Coffee (Original Blend, Dark Roast or Decaf)Large	3
Coffee (Original Blend, Dark Roast or Decaf)Medium	2
Iced Coffee (Original or Dark Roast)Large	6
Iced Coffee (Original or Dark Roast)Medium	5
Iced Coffee (Original or Dark Roast)Small	4
Turkey Bacon Club	8

5)

```
SELECT item_id AS id,item_name AS ItemName,COUNT(*) AS NumberofSales FROM
menu_items NATURAL JOIN line_items
GROUP BY item_id
ORDER BY COUNT(*) desc ;
```

id	ItemName	NumberofSales
7	California Turkey	8
2	Coffee (Original Blend, Dark Roast or Decaf)Medium	2
4	Iced Coffee (Original or Dark Roast)Small	2
6	Iced Coffee (Original or Dark Roast)Large	2
8	Turkey Bacon Club	2
5	Iced Coffee (Original or Dark Roast)Medium	2
3	Coffee (Original Blend, Dark Roast or Decaf)Large	1
9	Avocado BLT	1

6)

```
SELECT item_id AS id,item_name AS ItemName,COUNT(*) AS NumberofSales,
CONCAT('$',format(item_price,2)) AS price ,CONCAT('$',
format(item_price*COUNT(*),2)) AS revenue
FROM menu_items NATURAL JOIN line_items
GROUP BY item_id
ORDER BY COUNT(*) desc ;
```

id	ItemName	NumberofSales	price	revenue
7	California Turkey	8	\$6.49	\$51.92
2	Coffee (Original Blend, Dark Roast or Decaf)Medium	2	\$1.79	\$3.58
5	Iced Coffee (Original or Dark Roast)Medium	2	\$2.29	\$4.58
8	Turkey Bacon Club	2	\$6.49	\$12.98
4	Iced Coffee (Original or Dark Roast)Small	2	\$1.99	\$3.98
6	Iced Coffee (Original or Dark Roast)Large	2	\$2.79	\$5.58
3	Coffee (Original Blend, Dark Roast or Decaf)Large	1	\$1.99	\$1.99
9	Avocado BLT	1	\$5.49	\$5.49

7)

```
SELECT DISTINCT CONCAT('$',FORMAT(Item_price,2)) AS AllDifferentPrices
FROM line_items
NATURAL JOIN menu_items
GROUP BY item_price ;
```

AllDifferentPrices
\$1.79
\$1.99
\$2.29
\$2.79
\$5.49
\$6.49

8)

```
SELECT DISTINCT COUNT(DISTINCT item_price)AS AllDifferentPrices from
line_items NATURAL JOIN menu_items ;
```

AllDifferentPrices
6

9)

```
SELECT * FROM menu_items
WHERE item_price = (SELECT Min(item_price) FROM menu_items) ;
```

Item_ID	Item_name	Item_price	Item_category
1	Coffee (Original Blend, Dark Roast or Decaf)Small	1,59	11
16	Tea	1,59	11

10)

```
SELECT item_id AS id,item_name AS ItemName,COUNT(*) AS NumberofSales,
CONCAT('$',format(item_price,2)) AS price ,CONCAT('$',
format(item_price*COUNT(*),2)) AS revenue
FROM menu_items NATURAL JOIN line_items
WHERE item_price = (SELECT Min(item_price) FROM menu_items)
GROUP BY item_id ;
```

id	 ItemName	NumberofSales	price	revenue
2	Coffee (Original Blend, Dark Roast or Decaf)Medium	20	\$1.79	\$35.80