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/*
Noah Zhou
CNIT 272 Fall 2023
Lab Time: Friday 7:30 AM - 9:20 AM
*****************
*****
--Ouestion 1
/*
List supplier id, name, and city of any supplied food with its price is
more than $7. Use
a nested query to find food items in the FOOD table that the price are
more than $7.
☐ Use a subquery or also called a nested query
☐ FOOD SUPPLIER (and FOOD table inside of the subquery)
☐ 5 rows selected
SELECT supplier id, supplier name, supplier city
FROM food supplier
WHERE supplier id IN
   (SELECT supplier id FROM food WHERE price>7.00);
/*
Results:
SUP SUPPLIER NAME
                         SUPPLIER CITY
___ ______
Blu Blue Sky Deli
                             Oak Brook
                             Hinsdale
Crm Crystal Market
Dpz Downtowner Pizza
                             Chicago
Hsd Harper Street Deli
                             Chicago
Jmd Jebston Montrose Deli Chicago
5 rows selected.
* /
******************
*****
--Question 2
/*
List the worker ID, first name, last name, and hire date of the workers
with no lunch
orders. Sort the list by Hire Date.
☐ Type 'set linespace 200' in the first line to help with column
wrapping, then write your
query start in the second line.
\square Use a subquery with NOT IN
□ WORKER table (and LUNCH table inside of the subquery)
☐ 8 rows selected
*/
set linespace 200
```

```
SELECT worker id, first name, last name, hire date
FROM worker
WHERE worker id NOT IN
    (SELECT worker id FROM lunch)
ORDER BY hire date;
/*
Results:
WOR FIRST NAME LAST NAME
                             HIRE_DATE
___ _____
574 Cassie Irwin
561 Maria Bensen
580 Roy Gonzalez
583 Tonya Montre
569 Blair Reynolds
558 Melody Campbell
566 Tami Tevona
                                     13-SEP-03
                                 13-SEP-03
15-SEP-07
19-DEC-11
07-MAR-12
07-FEB-13
24-MAY-18
21-AUG-19
22-MAR-21
588 Gail
              Walsh
                                     22-MAR-21
8 rows selected.
*/
**********************
*****
--Question 3
Find the food supplier id, the supplier name, product code, price and
supplier city for all
Suppliers from the city of Chicago and food priced more than $4. Sort by
price.
\hfill\Box 
 Type 'set linespace 200' in the first line, then write your query start
in the second line.
☐ Use an inner join to obtain this result.
☐ FOOD SUPPLIER and FOOD tables
□ Try using table aliases such as 'fs' for 'food supplier' to avoid
typing long table names
over and over.
\ \square Note that the attribute Supplier ID is used in both tables
\square 11 rows selected.
* /
set linespace 200
SELECT fs.supplier id AS Supplier ID, supplier name AS Supplier Name,
description AS Description, price AS Price
FROM food supplier fs INNER JOIN food f ON fs.supplier_id = f.supplier_id
WHERE Price>4.00 AND supplier city = 'Chicago'
ORDER BY Price;
```

DESCRIPTION	PRICE
Chicken Soup Apple Pie Yellow Cake Barley Soup Caprese Chef Salad Potato Soup Spinach Salad Mushroom Pizza Cheese Pizza Protein Box	4.25 4.5 4.5 4.75 5.5 5.75 6.25 6.25 8
***********	*******
ot required to paste in e, department code, lur n May 2021 (within May as result.	nch date and lunch
e, department code, lurd lunch orders in May 2 you add item number in es and 2 relationships. TEM tables d, and the item number	2021. n the SELECT clause
e, department code, lur d lunch orders in May 2 and 3 relationships (F and FOOD tables c need information from s a composite PK relati	2021. Build on Part 4B) n an additional ionship.
	Chicken Soup Apple Pie Yellow Cake Barley Soup Caprese Chef Salad Potato Soup Spinach Salad Mushroom Pizza Cheese Pizza Protein Box  At required to paste in e, department code, lun an May 2021 (within May as result.  lunch id  de, department code, lun and 2 relationships and 2 relationships and 3 relationships and 3 relationships and 3 relationships and 4 lunch orders in May and 3 relationships and 5 lun and 6 lunch orders and 7 lun and 8 lunch orders and 9 lun and 9 lun and 1 lun and 1 lun and 1 lun and 2 relationships and 3 relationships and 6 lun and 6 lun and 7 lun and 7 lun and 7 lun and 8 lun and 9 lun

```
FROM worker w INNER JOIN lunch 1 ON w.worker id = 1.worker id
WHERE lunch_date >= '01-MAY-2021' AND lunch_date <= '31-MAY-2021'</pre>
ORDER BY lunch date, lunch id;
--Question 4-B
SELECT last name, first name, dept code, li.lunch id, lunch date,
FROM worker w INNER JOIN lunch 1 ON w.worker id = 1.worker id
INNER JOIN lunch item li ON l.lunch id = li.lunch id
WHERE lunch date >= '01-MAY-2021' AND lunch date <= '31-MAY-2021'
ORDER BY lunch date, lunch id, item number;
--Ouestion 4-C
SELECT last name, first name, dept code, li.lunch id, lunch date,
FROM worker w INNER JOIN lunch 1 ON w.worker id = 1.worker id
INNER JOIN lunch item li ON l.lunch id = li.lunch id
INNER JOIN food f ON li.supplier id = f.supplier id AND li.product code =
f.product code
WHERE lunch date >= '01-MAY-2021' AND lunch date <= '31-MAY-2021'
ORDER BY lunch date, lunch id, item number;
**********************
*****
--Question 5
List the lunch ID, lunch date, the count of menu items per purchased
lunch, and the
total price of a purchased lunch per lunch id. Only include lunch dates
from the second
half of May 2021 (May 16, 2021 - May 31, 2021). Label the total price
expression as
TOTAL PRICE and the count of items as COUNT. Format the TOTAL PRICE in
currency format. Sort by the lunch date, then the lunch id.
□ Type 'col TOTAL PRICE format $9999.99' in the first line to format the
TOTAL PRICE in currency format, then write your query start in the second
line.
\square This involves 3 tables and 2 relationships.
☐ LUNCH, LUNCH ITEM, FOOD tables
\ \square Note again that FOOD to LUNCH ITEM is a composite PK relationship.
☐ Group by the non-aggregated columns from the SELECT clause.
\square 13 rows selected.
* /
col TOTAL PRICE format $9999.99
SELECT l.lunch id, lunch date, COUNT(menu item) AS Count, SUM(price) AS
Total Price
FROM lunch 1 INNER JOIN lunch item li ON 1.lunch id = li.lunch id
INNER JOIN food f ON li.supplier id = f.supplier id AND li.product code =
f.product code
```

```
WHERE lunch date >= '16-MAY-2021' AND lunch date <= '31-MAY-2021'
GROUP BY lunch date, l.lunch id
ORDER BY 1.lunch id, lunch date;
/*
Results:
LUNCH ID LUNCH DAT COUNT TOTAL PRICE
______
     1 22-MAY-21 3 $12.25
                        4 $16.25
      2 22-MAY-21
                     4 $16.25

5 $23.20

4 $19.40

5 $22.25

5 $23.10

3 $17.80

6 $24.40
      3 22-MAY-21
      4 22-MAY-21
      5 22-MAY-21
      6 22-MAY-21
      7 27-MAY-21
      8 27-MAY-21
      9 27-MAY-21
                         4 $19.40
                         4 $14.45
     10 27-MAY-21
                     4 $15.20
     11 27-MAY-21
LUNCH ID LUNCH DAT COUNT TOTAL PRICE
_____ ____
     12 27-MAY-21 5 $24.95
13 27-MAY-21 5 $21.10
13 rows selected.
* /
******************
*****
--Ouestion 6
/*
A) Count the number of lunches per lunch date purchased by workers who
assigned to any department and hired between December 01, 2012, and April
01 2020.
Format the lunch date in the fmMONTH-YYYY format.
☐ Use an inner join to obtain this result
☐ WORKER and LUNCH tables
\square Label the lunch date as LD and the count as LUNCH COUNT
\hfill\Box 
 Group by the non-aggregated column in the SELECT clause
\square Sort by LD.
\square 2 rows selected.
B) Expand on 6A: Add a clause to remove any LD with a total lunch count
greater than 2.
☐ 1 row selected.
* /
--Question 6-A
SELECT TO CHAR(lunch date, 'fmMONTH, YYYY') AS LD, COUNT(lunch id) AS
Lunch Count
FROM worker w INNER JOIN lunch 1 ON w.worker id = 1.worker id
```

```
WHERE hire date BETWEEN '01-DEC-2012' AND '01-APR-2020' AND dept code IS
NULL
GROUP BY TO CHAR(lunch date, 'fmMONTH, YYYY');
--Question 6-B
SELECT TO CHAR(lunch date, 'fmMONTH, YYYY') AS LD, COUNT(lunch id) AS
Lunch Count
FROM worker w INNER JOIN lunch 1 ON w.worker id = 1.worker id
WHERE hire date BETWEEN '01-DEC-2012' AND '01-APR-2020' AND dept code IS
GROUP BY TO CHAR(lunch date, 'fmMONTH, YYYY')
HAVING COUNT (lunch id) < 3;
/*
Results:
[Question 6-A]
LD LUNCH COUNT
JUNE, 2021
MAY,2021
                     1
[Question 6-B]
LD LUNCH_COUNT
MAY,2021
* /
******************
*****
```