MIS 320 Database Management Systems: Assignment 6

1. This assignment is due on **Tuesday, April 23rd, 2024**. Please submit your assignment on Canvas as a file upload. Only **one submission per group** is needed. Include your complete **query and your query output from MySQL**.

3. Please indicate your **roster name** in your homework submission. **10 points will be deducted from your grade for missing your name.**

4. Submit your assignment as a pdf or doc or docx file. DO NOT use a google document. Make sure that it is posted by 11:59 PM on Tuesday, April 23rd.

5. This assignment has five questions. Each question is worth 10 points.

I pledge on my honor that I have not given or received any unauthorized assistance on this assignment.

Your Roster Names:

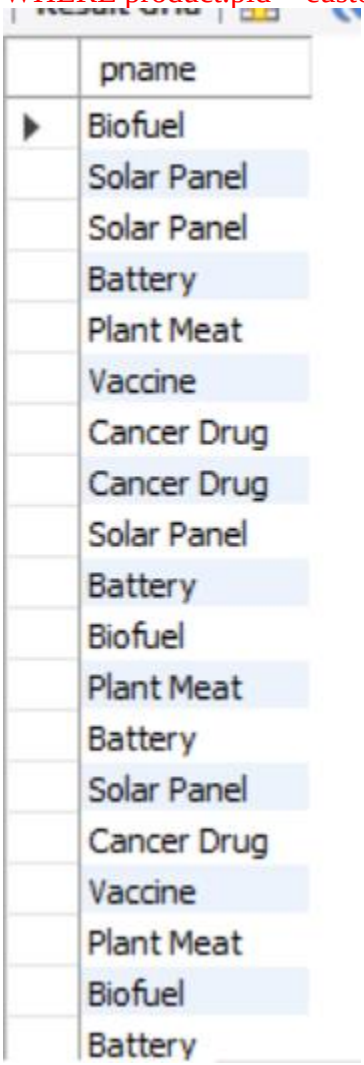
Sign: Janida Magallanes Date: 4/22/2024

Sign: Giselle Echeverria Date: 4/22/2024

Sign: Date:

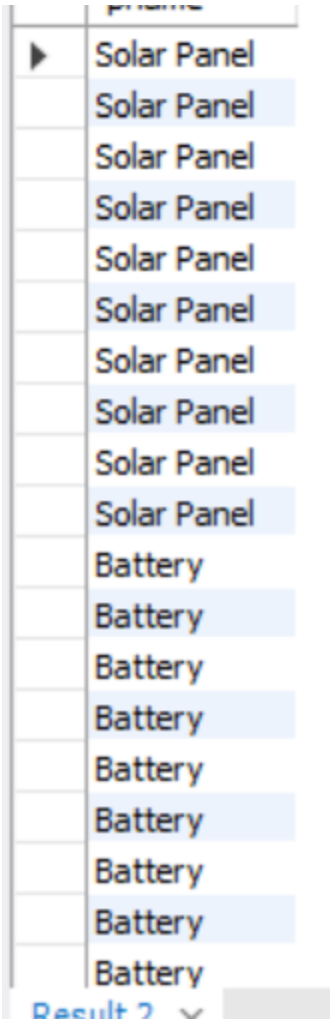
1. Write a query to list the names of the products that are in at least one customer order. Modify this query to also include the products that are not in any order. Modify this query again to show only those products that are not in any order.

```
SELECT product.pname
FROM product, custorder
WHERE product.pid = custorder.pid;
```



pname
Biofuel
Solar Panel
Solar Panel
Battery
Plant Meat
Vaccine
Cancer Drug
Cancer Drug
Solar Panel
Battery
Biofuel
Plant Meat
Battery
Solar Panel
Cancer Drug
Vaccine
Plant Meat
Biofuel
Battery

```
SELECT product.pname
FROM product LEFT JOIN custorder
ON product.pid = custorder.pid;
```



Solar Panel
Solar Panel
Solar Panel
Solar Panel
Solar Panel
Solar Panel
Solar Panel
Solar Panel
Solar Panel
Solar Panel
Battery
Battery
Battery
Battery
Battery
Battery
Battery
Battery
Battery

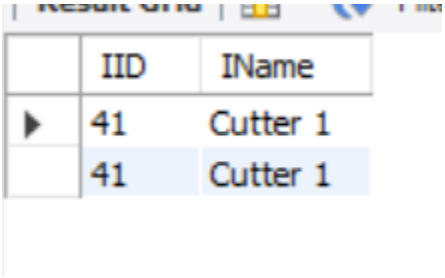
Result 2

```
SELECT product.pname
FROM product
LEFT JOIN custorder ON product.PID = custorder.PID
WHERE custorder.custorderqty IS NULL;
```

pname

2. Write a query to list ids and names of items that are in a particular product (you are free to choose any product). Use both joins and subqueries to accomplish this task. [so, you need to build two separate queries, each of which will produce the same result]

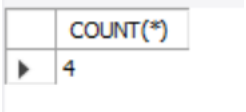
```
SELECT item.IID, item.IName
FROM item
INNER JOIN proditem ON proditem.IID = item.IID
INNER JOIN product ON product.PID = proditem.PID
WHERE product.PName = 'Battery';

SELECT item.IID, item.IName
FROM item
INNER JOIN proditem ON proditem.IID = item.IID
WHERE PID = (
   SELECT PID
   FROM product
   WHERE PName = 'Battery'
);
```



	IID	IName
▶	41	Cutter 1
	41	Cutter 1

3. Write a query to list the total number projects for solar panel and crypto products as long as the project starts before January 15, 2019.

```
SELECT COUNT(*)
FROM project
WHERE project.prid IN
(SELECT empprojprod.prid
FROM empprojprod
INNER JOIN product ON product.pid = empprojprod.pid
WHERE product.pname = 'solar panel' OR product.pname = 'crypto')
AND project.prsdate < '2019-01-15';
```

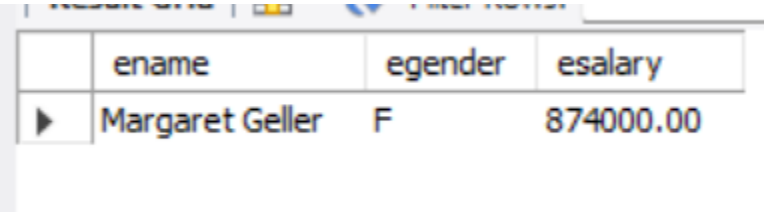


	COUNT(*)
▶	4

4. Write a query to list the names, genders and salaries of employees who are associated with the highest and lowest nobillhours.

```
Select ename, egender, esalary
From employee eu1
```

```
Where esalary>all
(select esalary
From employee eu2
Where eu1.esalary!=eu2.esalary);
Select ename, egender, esalary
From employee
Where esalary = (select min(esalary)
From employee);
Select ename, egender, esalary
From employee
Where esalary = (select max(esalary)
From employee);
```

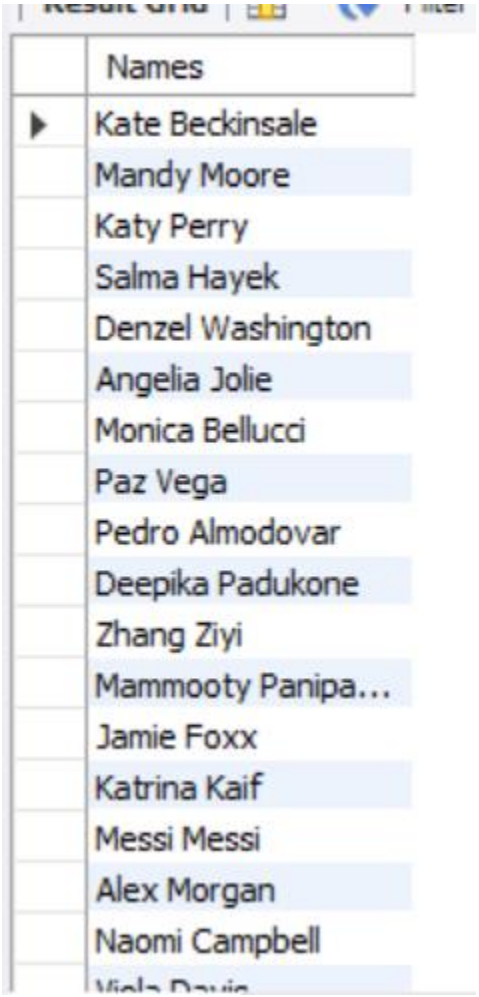


	ename	egender	esalary
▶	Margaret Geller	F	874000.00

5. Write a query to list in separate rows the names of customers who have placed product orders with quantities between 10 and 350, and suppliers who have placed item orders with before June 20, 2021, and financiers who have financed more than one product, and employees who have worked on two or more projects. [**Hint: rename each name column (for customers, suppliers, and so on) and make it the same for all**]

```
SELECT cname AS Names
FROM customer
JOIN custorder ON custorder.cid = customer.cid
WHERE custorder.CustOrderQty BETWEEN 10 AND 350
UNION
SELECT sname AS Names
FROM supplier
JOIN supporder ON supporder.sid = supplier.sid
WHERE supporder.SuppOrderDate < '2021-06-20'
UNION
SELECT financier.fname AS Names
FROM financier
JOIN product ON financier.fid = product.fid
GROUP BY financier.fname
HAVING COUNT(product.pid) > 1
UNION
SELECT employee.ename AS Names
```

```
FROM employee
JOIN empprojprod ON empprojprod.eid = employee.eid
JOIN project ON project.prid = empprojprod.prid
GROUP BY employee.ename
HAVING COUNT(project.prid) >= 2;
```



Names
Kate Beckinsale
Mandy Moore
Katy Perry
Salma Hayek
Denzel Washington
Angelia Jolie
Monica Bellucci
Paz Vega
Pedro Almodovar
Deepika Padukone
Zhang Ziyi
Mammooty Panipa...
Jamie Foxx
Katrina Kaif
Messi Messi
Alex Morgan
Naomi Campbell
Viola Davis