#### 1. A) Find the names of people who do not like to eat fruits (nested queries)

select fname, lname from person where ssn not in (select ssn from favorite\_food where category='fruits');

fname	lname
Ramesh	Narayan
Ahmad	Jabber
John	Smith
Alice	Zelaya
James	Borg

# B):Find the names of people who like to eat chocolates

select fname, lname from person where ssn in (select ssn from favorite\_food where name = 'chocolate');

+-	fname  Frankl:	+-	lname    Wong	
+-		+-	(0.001	

## 2. Use Cartesian product to achieve same result.

select p.fname, p.lname, f.name, f.price, f.expiry\_date from person p,
favorite\_food ff, food f where ff.name = f.name and p.ssn = ff.ssn;

_		L	L	L	L
	fname	lname	name	price	expiry_date
+	Franklin Franklin Franklin Franklin John John Alice Jennifer	   Wong   Wong   Smith   Smith   Zelaya   Wallace		2   3   4   1   8   20	2019-03-16
	Ramesh Joyce Jennifer Jennifer Jennifer	Narayan   English   Wallace   Wallace   Wallace	Big Mac Combo   Watermelon   grapes   grapes   grapes	4 3 2 2 2 2	2019-10-11   2019-10-18   2019-10-12   2019-10-12   2019-10-12

12 rows in set (0.001 sec)

## MariaDB [npudb1]>

3-Join all the tables and display First name, Last name, food name, price, expiry\_date (Left outer, right outer, inner join)

#### a. Inner Join:

select p.fname, p.lname, f.name, f.price, f.expiry\_date from person p
inner join favorite\_food ff on ff.ssn = p.ssn inner join food f on
ff.name = f.name;

<b></b>	L	L	L	L
fname	Iname	name	price	expiry_date
Franklin Franklin Franklin John John Alice Jennifer Ramesh Joyce Jennifer Jennifer	Wong   Wong   Wong   Smith   Smith   Zelaya   Wallace   Narayan   English   Wallace   Wallace	apple orange chocolate gummy bear cake chocolate cake grapes Big Mac Combo Watermelon grapes grapes	2   3   4   1   8   20   2   4   3   2	2019-03-16   2019-11-16   2019-10-11   2019-11-11   2019-11-01   2019-10-09   2019-10-12   2019-10-11   2019-10-18   2019-10-12   2019-10-12   2019-10-12
+	+	+	+	

#### 12 rows in set (0.001 sec)

# b. Right outer join

select p.fname, p.lname, f.name, f.price, f.expiry\_date from person p
right outer join favorite\_food ff on ff.ssn = p.ssn inner join food f
on ff.name = f.name;

fname	lname	name	price	expiry_date
Franklin Franklin Franklin John John Alice Jennifer Jennifer Jennifer Jennifer Jennifer	Wong Wong Wong Smith Zelaya Wallace Wallace Wallace Wallace	apple orange chocolate gummy bear cake chocolate cake grapes grapes grapes grapes grapes big Mac Combo	2 3 4 1 8 20 2 2 2 2 2 4 3	2019-03-16 2019-11-16 2019-10-11 2019-11-01 2019-10-09 2019-10-12 2019-10-12 2019-10-12 2019-10-12 2019-10-12 2019-10-13

## 12 rows in set (0.001 sec)

# c.Natural join

select t.txn\_id, t.txn\_type\_cd, t.account\_id, t.amount, a.cust\_id
from transaction t natural join account a;

	<b></b>	L	L		
	txn_id	txn_type_cd	account_id	amount	cust_id
	978	DBT	103	100	1
	j 979	CDT	103	25	1
	978	DBT	103	100	1
	j 979	CDT	103	25	1
	980	DBT	104	250	2
	980	DBT	104	250	2
	984	DBT	106	500	3
	981	DBT	105	1000	4
	982	CDT	105	138.5	4
	983	CDT	105	77.86	4
	984	DBT	106	500	3
	981	DBT	105	1000	4
	982	CDT	105	138.5	4
	983	CDT	105	77.86	4
-	T——————	r			r <del>-</del>

#### d):Left outer:

select p.fname, p.lname, f.name, f.price, f.expiry\_date from person p
left outer join favorite\_food ff on ff.ssn = p.ssn inner join food f
on ff.name = f.name;

fname	lname	name	price	expiry_date
Franklin Franklin Franklin John John Alice Jennifer Ramesh Joyce Jennifer Jennifer	Wong Wong Wong Smith Smith Selaya Wallace Narayan English Wallace Wallace	apple   orange   chocolate   gummy bear   cake   chocolate cake   grapes   Big Mac Combo   Watermelon   grapes   grapes   grapes   grapes   grapes	2   3   4   1   8   20   2   4   3   2	2019-03-16 2019-11-16 2019-10-11 2019-11-01 2019-10-09 2019-10-12 2019-10-11 2019-10-18 2019-10-12 2019-10-12 2019-10-12

12 rows in set (0.001 sec)

# 4): A) Today is Oct 31 st find all the fresh food and display food with person's name.

select p.fname, p.lname, ff.name from person p inner join
favorite\_food ff on p.ssn = ff.ssn where ff.name in( select name from
food where expiry\_date >= '2019-10-31');

+	+   lname +	   name
Franklin   John   John	Smith	orange     gummy bear     cake

3 rows in set (0.001 sec)

#### 4: B)-Today is Oct 31 st oct 31 st and Nov 12 th

## find all food which will expire between

select p.fname, p.lname, ff.name from person p inner join
favorite\_food ff on p.ssn = ff.ssn where ff.name in( select name from
food where expiry\_date between '2019-10-31' and '2019-11-12');

fname	lname	++   name
John	Smith	
John	Smith	gummy bear

2 rows in set (0.001 sec)

5-Find all the transactions which happened in the months of March and April 2004 (List txn\_id, txn\_type, account\_id, amount)

select txn\_id, txn\_type\_cd, account\_id, amount from transaction where date between '2004-03-01' and '2004-04-30';

ı		L	L	L
	txn_id	txn_type_cd	account_id	amount
	980 981 982 983 984	DBT DBT CDT CDT DBT	104   105   105   105   106	250   1000   138.5   77.86   500
╛		r	r	r <del>-</del>

6.Find all the transactions which happened in Jan and Feb 2004 (List txn\_id, txn\_type, account\_id, amount, cust\_id)

select t.txn\_id, t.txn\_type\_cd, t.account\_id, t.amount, a.cust\_id
from transaction t left outer join account a on t.account\_id =
a.account\_id where t.date between '2004-01-01' and '2004-02-28';

4	<b></b>	<b></b>	<b></b>	<b></b>	<del></del>
	txn_id	txn_type_cd	account_id	amount	cust_id
	978 979 978 979	DBT   CDT   DBT   CDT	103   103   103   103	100   25   100   25	1   1   1   1
-		+	+	+	+

<sup>4</sup> rows in set (0.001 sec)