



**IMB GRADED LAB 3**

**Name of Student: Abhishek Bisht**

**SAP ID: 1000010587**

**Creation Table:**

1. Customer:

create table Customer

(customer\_id int(1),first\_name varchar(10),last\_name varchar(15),email  
varchar(25),address varchar(30),city varchar(15),state varchar(5),zipcode int);

insert into Customer

values(1,'George','Washington','gWASHINGTON@usa.gov','3200 Mt Vernon Hwy','Mount  
Vernon','VA',22121);

insert into Customer

values(2,'John','Adams','jAdams@usa.gov','1250 Hancock St','Quincy','MA',02169);

insert into Customer

values(3,'Thomas','Jefferson','tJefferson@usa.gov','931 Thomas Jefferson  
PkwY','Charlottesville','VA',22902);

insert into Customer

values(4,'James','Madison','jMadison@usa.gov','11350 Constitution  
Hwy','Orange','VA',22960);

insert into Customer

values(5,'James','Monroe','jMonroe@usa.gov','2050 James Monroe  
Parkway','Charlottesville','VA',22902);

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Select \* from Customer;

customer_id	first_name	last_name	email	address	city	state	zipcode
1	George	Washington	gswashington@usa.gov	3200 Mt Vernon Hwy	Mount Vernon	VA	22121
2	John	Adams	jadams@usa.gov	1250 Hancock St	Quincy	MA	2169
3	Thomas	Jefferson	tjefferson@usa.gov	931 Thomas Jefferson Pkwy	Charlottesville	VA	22902
4	James	Madison	jmadison@usa.gov	11350 Constitution Hwy	Orange	VA	22960
5	James	Monroe	jmonroe@usa.gov	2050 James Monroe Parkway	Charlottesville	VA	22902

**Order:**

create table order

(order\_id int(1),order\_date date,amount varchar(10),customer\_id int);

insert into order

values(1,'1776/07/04','\$234.56',1);

insert into order

values(2,'1760/03/14','\$78.50',3);

insert into order

values(3,'1784/05/23','\$124.00',2);

insert into order

values(4,'1790/09/03','\$65.50',3);

insert into order

values(5,'1795/07/21','\$25.50',10);

insert into order

values(6,'1787/11/27','\$14.40',9);

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Select \* from Order;

order_id	order_date	amount	customer_id
1	1776-07-04	\$234.56	1
2	1760-03-14	\$78.50	3
3	1784-05-23	\$124.00	2
4	1790-09-03	\$65.50	3
5	1795-07-21	\$25.50	10
6	1787-11-27	\$14.40	9

### Queries:

1. List of those customers who placed an order and the details of the order they placed and table should not display customer who have not placed any order.

```
select *
from Customer
natural join Order;
```

customer_id	first_name	last_name	email	address	city	state	zipcode	order_id	order_date	amount
1	George	Washington	gWASHINGTON@usa.gov	3200 Mt Vernon Hwy	Mount Vernon	VA	22121	1	1776-07-04	\$234.56
3	Thomas	Jefferson	tJEFFERSON@usa.gov	931 Thomas Jefferson Pkwy	Charlottesville	VA	22902	2	1760-03-14	\$78.50
2	John	Adams	jADAMS@usa.gov	1250 Hancock St	Quincy	MA	2169	3	1784-05-23	\$124.00
3	Thomas	Jefferson	tJEFFERSON@usa.gov	931 Thomas Jefferson Pkwy	Charlottesville	VA	22902	4	1790-09-03	\$65.50

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2. List information about orders to our customers table, regardless of whether a customer placed an order or not.

```
select * from Customer
left outer join Oder
on Customer.customer_id=Oder.customer_id;
```

customer_id	first_name	last_name	email	address	city	state	zipcode	order_id	order_date	amount	customer_id
1	George	Washington	gswashington@usa.gov	3200 Mt Vernon Hwy	Mount Vernon	VA	22121	1	1776-07-04	\$234.56	1
3	Thomas	Jefferson	tjefferson@usa.gov	931 Thomas Jefferson Pkwy	Charlottesville	VA	22902	2	1760-03-14	\$78.50	3
2	John	Adams	jadams@usa.gov	1250 Hancock St	Quincy	MA	2169	3	1784-05-23	\$124.00	2
3	Thomas	Jefferson	tjefferson@usa.gov	931 Thomas Jefferson Pkwy	Charlottesville	VA	22902	4	1790-09-03	\$65.50	3
4	James	Madison	jmadison@usa.gov	11350 Constitution Hwy	Orange	VA	22960	NULL	NULL	NULL	NULL
5	James	Monroe	jmonroe@usa.gov	2050 James Monroe Parkway	Charlottesville	VA	22902	NULL	NULL	NULL	NULL

3. List of all customers who have not placed an order.

```
select Customer.customer_id,first_name,last_name,email,address,city,state,zipcode
from Customer
where customer_id not in(select customer_id from Oder);
```

customer_id	first_name	last_name	email	address	city	state	zipcode
4	James	Madison	jmadison@usa.gov	11350 Constitution Hwy	Orange	VA	22960
5	James	Monroe	jmonroe@usa.gov	2050 James Monroe Parkway	Charlottesville	VA	22902

4. Display total sum for each customer orders.

```
select Customer.customer_id,count(Oder.customer_id)
from Customer
left outer join Oder
on Customer.customer_id=Oder.customer_id
group by Customer.customer_id;
```

customer_id	count(Oder.customer_id)
1	1
2	1
3	2
4	0
5	0