DBMS LAB ASSIGNMENT 5

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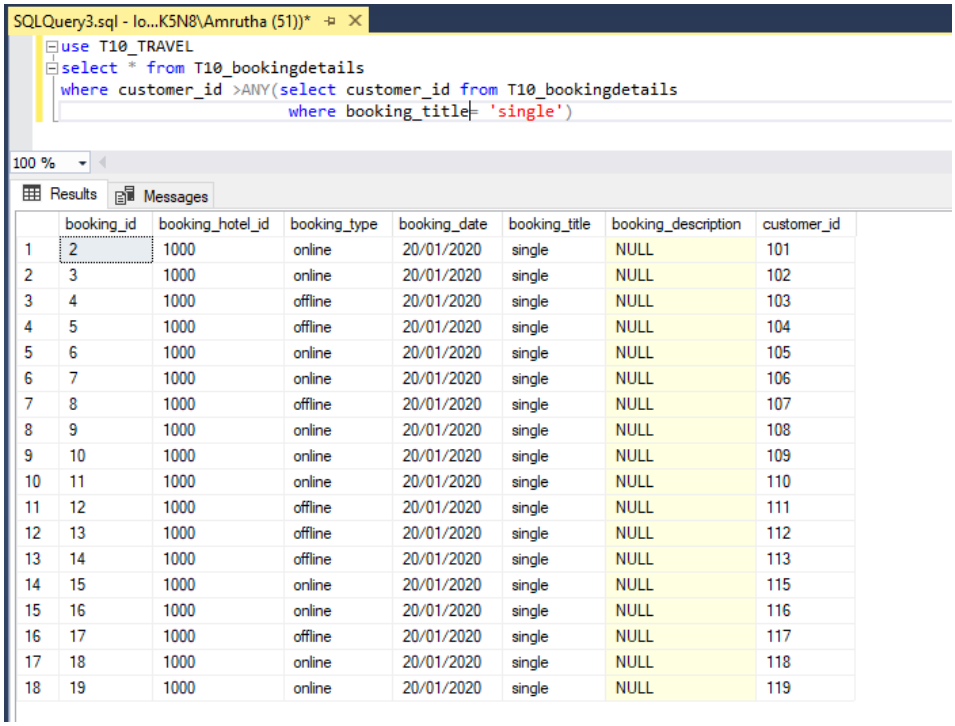
19BCS048

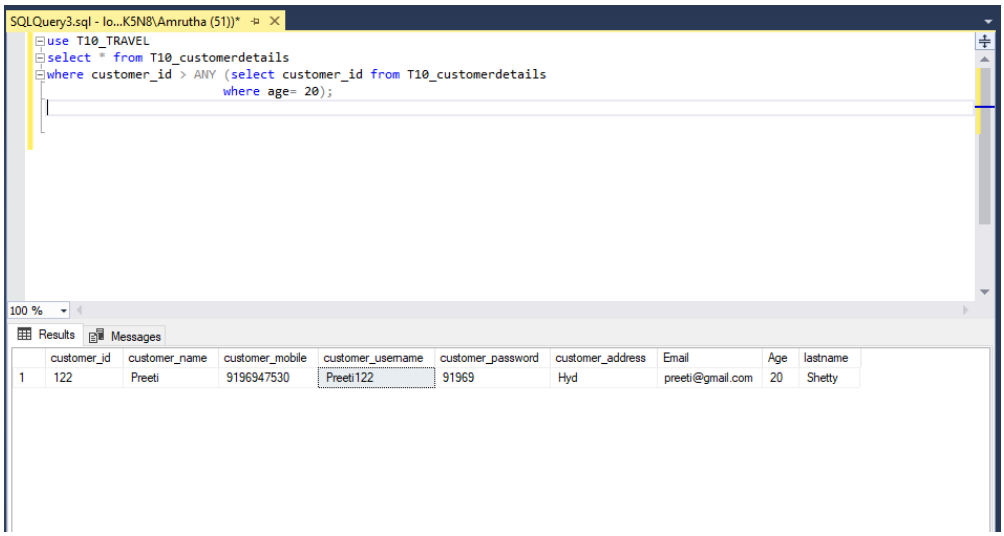
1. Illustrate logical ANY, ALL and LIKE operator- the queries should be relevant to your respective databases 3 queries for each operator. One query explaining the difference between ANY and ALL

```
use T10_TRAVEL
select * from T10_bookingdetails
where customer_id >ANY(select customer_id from T10_bookingdetails
                                        where booking_title= 'single')
```

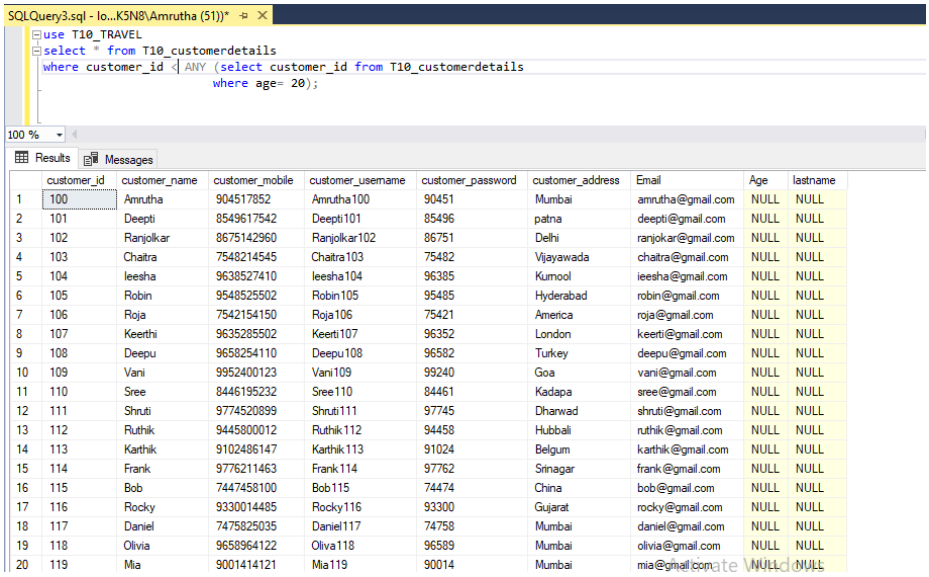


	booking_id	booking_hotel_id	booking_type	booking_date	booking_title	booking_description	customer_id
1	2	1000	online	20/01/2020	single	NULL	101
2	3	1000	online	20/01/2020	single	NULL	102
3	4	1000	offline	20/01/2020	single	NULL	103
4	5	1000	offline	20/01/2020	single	NULL	104
5	6	1000	online	20/01/2020	single	NULL	105
6	7	1000	online	20/01/2020	single	NULL	106
7	8	1000	offline	20/01/2020	single	NULL	107
8	9	1000	online	20/01/2020	single	NULL	108
9	10	1000	online	20/01/2020	single	NULL	109
10	11	1000	online	20/01/2020	single	NULL	110
11	12	1000	offline	20/01/2020	single	NULL	111
12	13	1000	offline	20/01/2020	single	NULL	112
13	14	1000	offline	20/01/2020	single	NULL	113
14	15	1000	online	20/01/2020	single	NULL	115
15	16	1000	online	20/01/2020	single	NULL	116
16	17	1000	offline	20/01/2020	single	NULL	117
17	18	1000	online	20/01/2020	single	NULL	118
18	19	1000	online	20/01/2020	single	NULL	119

```
use T10_TRAVEL
select * from T10_customerdetails
where customer_id > ANY (select customer_id from T10_customerdetails
                                        where age= 20);
```

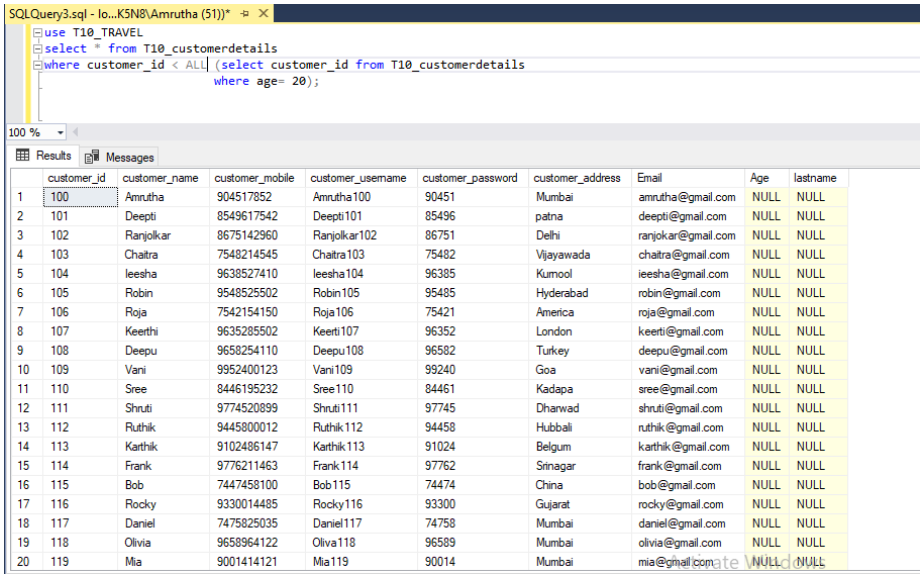



```
use T10_TRAVEL
select * from T10_customerdetails
where customer_id < ANY (select customer_id from T10_customerdetails
                                                  where age= 20);
```

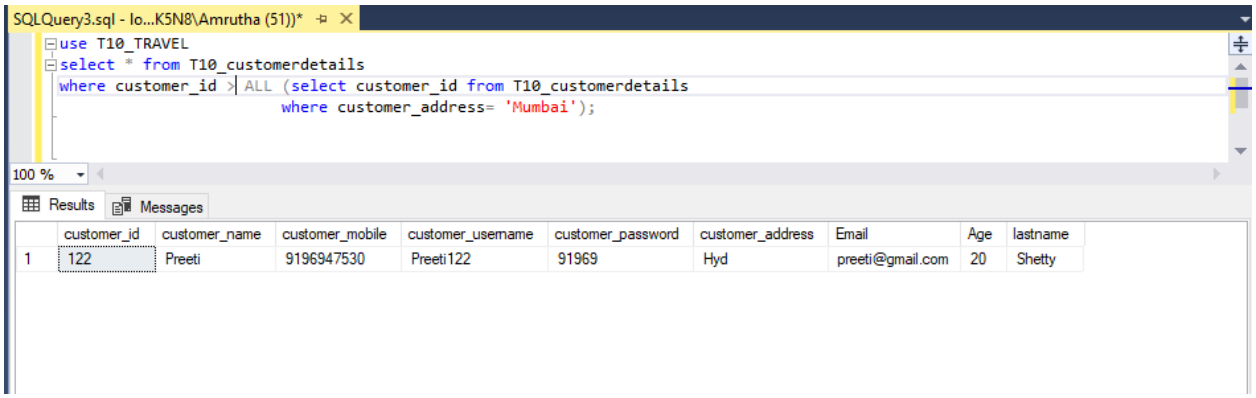



```
use T10_TRAVEL
select * from T10_customerdetails
where customer_id < ALL (select customer_id from T10_customerdetails
```

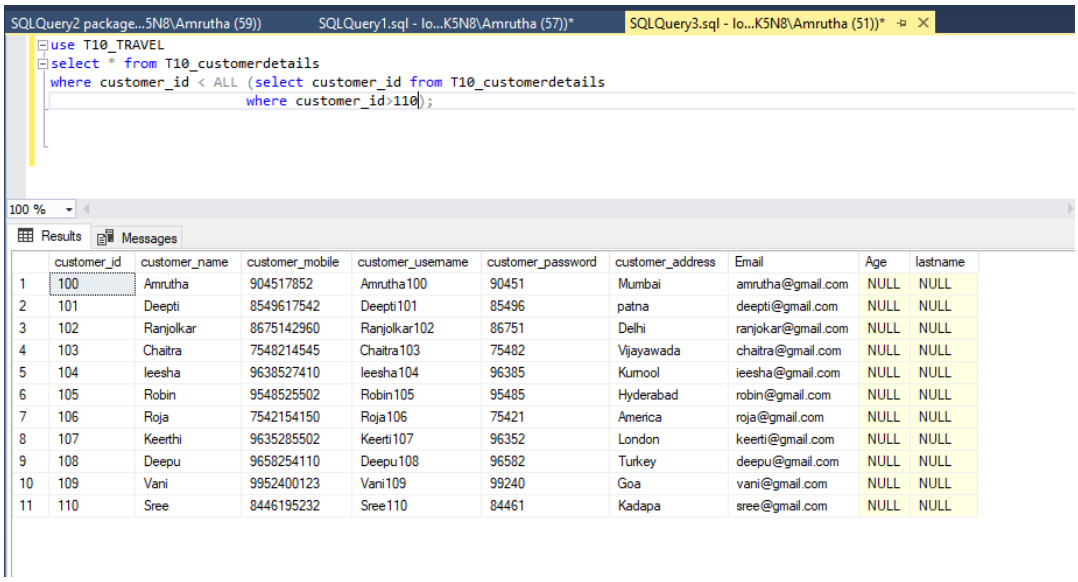
```
                                        where age= 20);
```



```
use T10_TRAVEL
select * from T10_customerdetails
where customer_id > ALL (select customer_id from T10_customerdetails
                                        where customer_address= 'Mumbai');
```



```
use T10_TRAVEL
select * from T10_customerdetails
where customer_id < ALL (select customer_id from T10_customerdetails
                                        where customer_id>110);
```



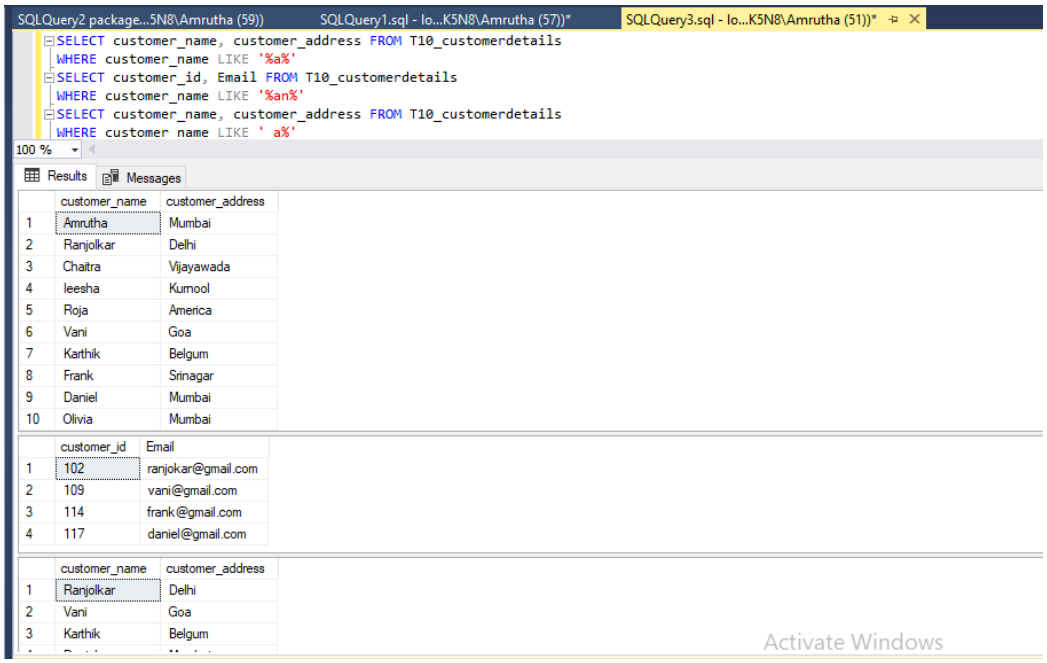
```
use T10_TRAVEL
select * from T10_customerdetails
where customer_id < ALL (select customer_id from T10_customerdetails
                         where customer_id>110);
```

100 %

Results | Messages

	customer_id	customer_name	customer_mobile	customer_username	customer_password	customer_address	Email	Age	lastname
1	100	Amrutha	904517852	Amrutha100	90451	Mumbai	amrutha@gmail.com	NULL	NULL
2	101	Deepti	8549617542	Deepti101	85496	patna	deepti@gmail.com	NULL	NULL
3	102	Ranjolkar	8675142960	Ranjolkar102	86751	Delhi	ranjokar@gmail.com	NULL	NULL
4	103	Chaitra	7548214545	Chaitra103	75482	Vijayawada	chaitra@gmail.com	NULL	NULL
5	104	leesha	9638527410	leesha104	96385	Kurnool	ieesha@gmail.com	NULL	NULL
6	105	Robin	9548525502	Robin105	95485	Hyderabad	robin@gmail.com	NULL	NULL
7	106	Roja	7542154150	Roja106	75421	America	roja@gmail.com	NULL	NULL
8	107	Keerthi	9635285502	Keerti107	96352	London	keerti@gmail.com	NULL	NULL
9	108	Deepu	9658254110	Deepu108	96582	Turkey	deepu@gmail.com	NULL	NULL
10	109	Vani	9952400123	Vani109	99240	Goa	vani@gmail.com	NULL	NULL
11	110	Sree	8446195232	Sree110	84461	Kadapa	sree@gmail.com	NULL	NULL

```
SELECT customer_name, customer_address FROM T10_customerdetails
WHERE customer_name LIKE '%a%'
SELECT customer_id, Email FROM T10_customerdetails
WHERE customer_name LIKE '%an%'
SELECT customer_name, customer_address FROM T10_customerdetails
WHERE customer_name LIKE '_a%'
```



```
SELECT customer_name, customer_address FROM T10_customerdetails
WHERE customer_name LIKE '%a%'
SELECT customer_id, Email FROM T10_customerdetails
WHERE customer_name LIKE '%an%'
SELECT customer_name, customer_address FROM T10_customerdetails
WHERE customer_name LIKE '_a%'
```

100 %

Results | Messages

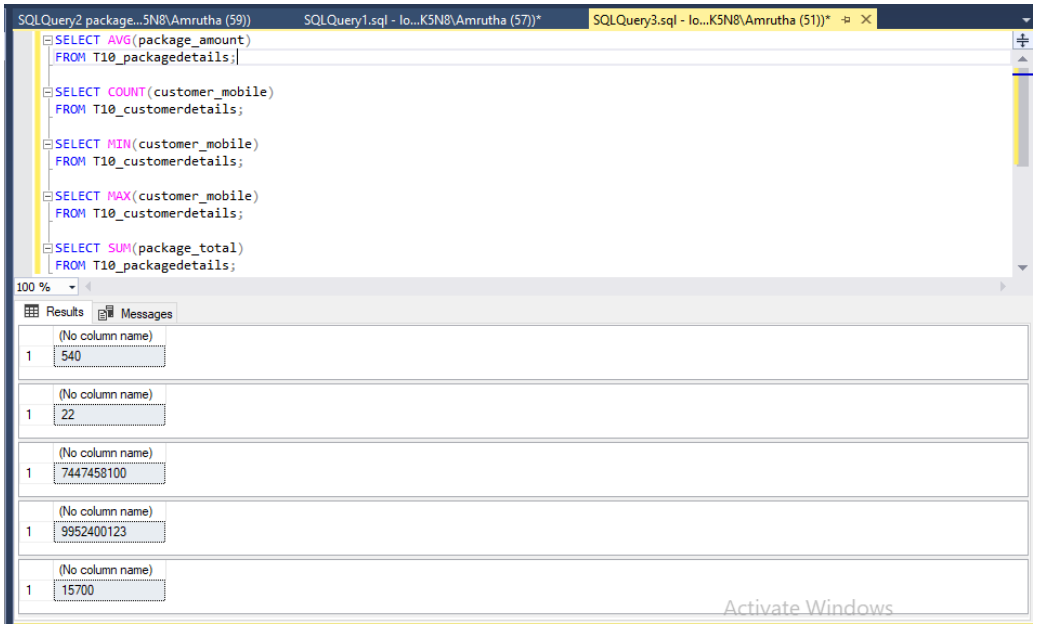
	customer_name	customer_address
1	Amrutha	Mumbai
2	Ranjolkar	Delhi
3	Chaitra	Vijayawada
4	leesha	Kurnool
5	Roja	America
6	Vani	Goa
7	Karthik	Belgum
8	Frank	Srinagar
9	Daniel	Mumbai
10	Olivia	Mumbai

	customer_id	Email
1	102	ranjokar@gmail.com
2	109	vani@gmail.com
3	114	frank.@gmail.com
4	117	daniel@gmail.com

	customer_name	customer_address
1	Ranjolkar	Delhi
2	Vani	Goa
3	Karthik	Belgum

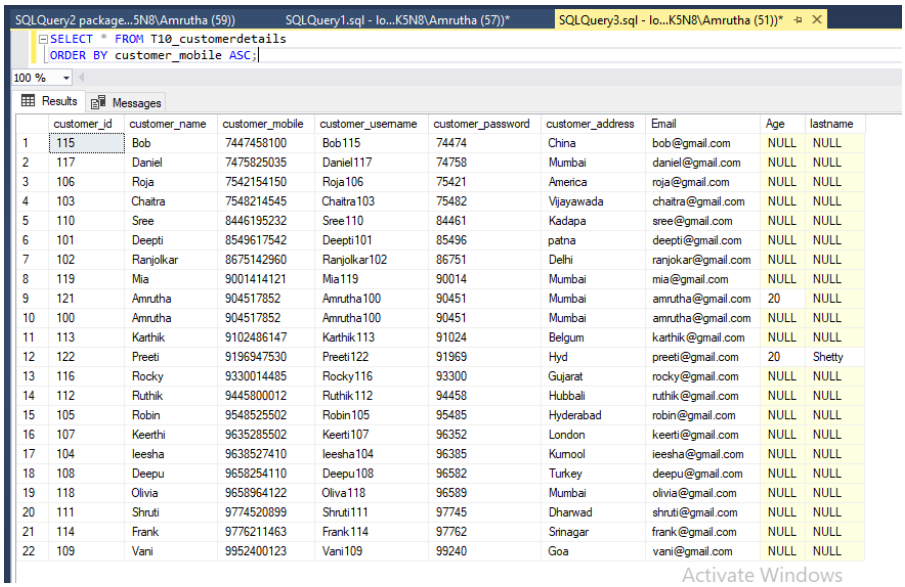
2. One query for each Aggregate function.

```
SELECT AVG(package_amount)
FROM T10_packagedetails;

SELECT COUNT(customer_mobile)
FROM T10_customerdetails;

SELECT MIN(customer_mobile)
FROM T10_customerdetails;

SELECT MAX(customer_mobile)
FROM T10_customerdetails;

SELECT SUM(package_total)
FROM T10_packagedetails;
```



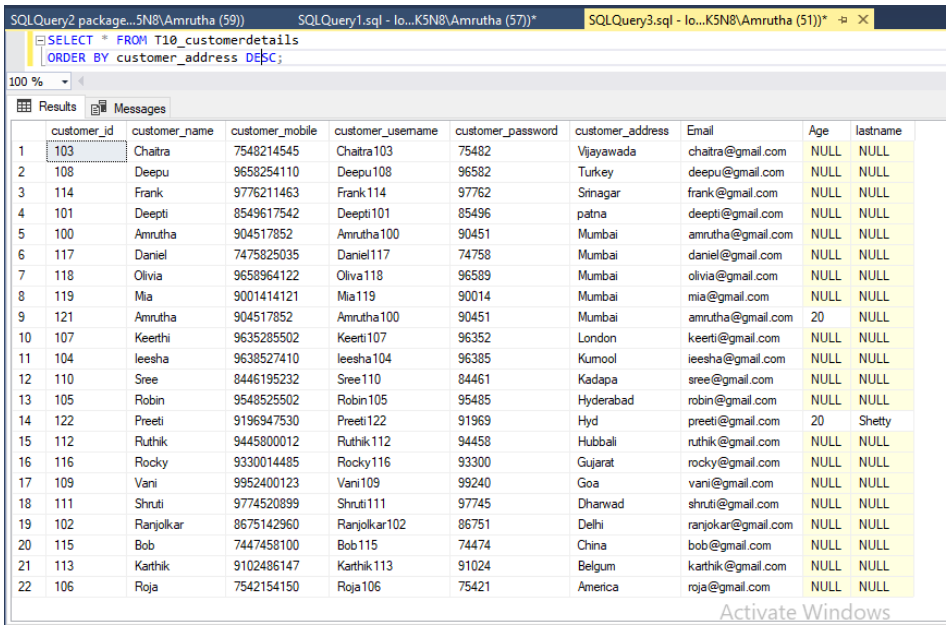
3. Illustrate the usage of order by, group by and having clause (2 queries for each case)

```
SELECT * FROM T10_customerdetails
ORDER BY customer_mobile ASC;
```



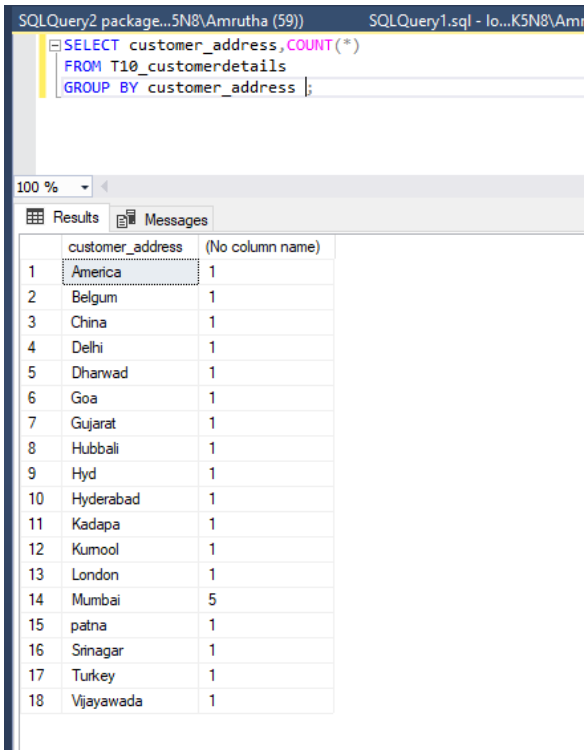
	customer_id	customer_name	customer_mobile	customer_username	customer_password	customer_address	Email	Age	lastname
1	115	Bob	7447458100	Bob115	74474	China	bob@gmail.com	NULL	NULL
2	117	Daniel	7475825035	Daniel117	74758	Mumbai	daniel@gmail.com	NULL	NULL
3	106	Roja	7542154150	Roja106	75421	America	roja@gmail.com	NULL	NULL
4	103	Chaitra	7548214545	Chaitra103	75482	Vijayawada	chaitra@gmail.com	NULL	NULL
5	110	Sree	8446195232	Sree110	84461	Kadapa	sree@gmail.com	NULL	NULL
6	101	Deepti	8549617542	Deepti101	85496	patna	deepti@gmail.com	NULL	NULL
7	102	Ranjolkar	8675142960	Ranjolkar102	86751	Delhi	ranjokar@gmail.com	NULL	NULL
8	119	Mia	9001414121	Mia119	90014	Mumbai	mia@gmail.com	NULL	NULL
9	121	Amrutha	904517852	Amrutha100	90451	Mumbai	amrutha@gmail.com	20	NULL
10	100	Amrutha	904517852	Amrutha100	90451	Mumbai	amrutha@gmail.com	NULL	NULL
11	113	Karthik	9102486147	Karthik113	91024	Belgum	karthik@gmail.com	NULL	NULL
12	122	Preeti	9196947530	Preeti122	91969	Hyd	preeti@gmail.com	20	Shetty
13	116	Rocky	9330014485	Rocky116	93300	Gujarat	rocky@gmail.com	NULL	NULL
14	112	Ruthik	9445800012	Ruthik112	94458	Hubbali	ruthik@gmail.com	NULL	NULL
15	105	Robin	9548525502	Robin105	95485	Hyderabad	robin@gmail.com	NULL	NULL
16	107	Keerthi	9635285502	Keerti107	96352	London	keerti@gmail.com	NULL	NULL
17	104	leesha	9638527410	leesha104	96385	Kurnool	ieesha@gmail.com	NULL	NULL
18	108	Deepu	9658254110	Deepu108	96582	Turkey	deepu@gmail.com	NULL	NULL
19	118	Olivia	9658964122	Oliva118	96589	Mumbai	olivia@gmail.com	NULL	NULL
20	111	Shruti	9774520899	Shruti111	97745	Dharwad	shruti@gmail.com	NULL	NULL
21	114	Frank	9776211463	Frank114	97762	Srinagar	frank@gmail.com	NULL	NULL
22	109	Vani	9952400123	Vani109	99240	Goa	vani@gmail.com	NULL	NULL


```
SELECT * FROM T10_customerdetails
ORDER BY customer_address DESC;
```



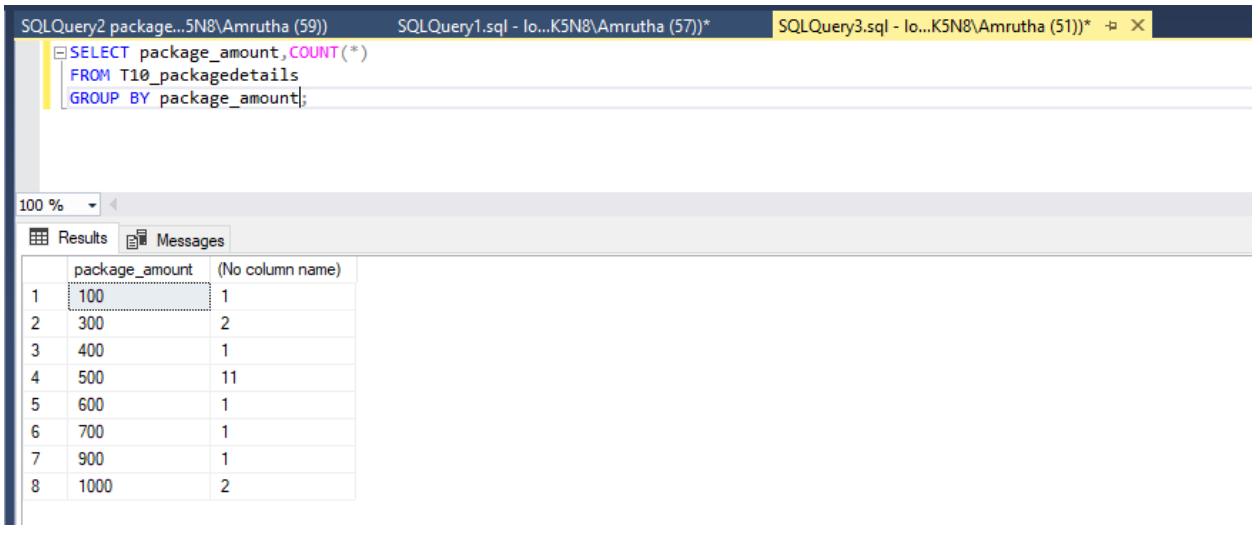
	customer_id	customer_name	customer_mobile	customer_username	customer_password	customer_address	Email	Age	lastname
1	103	Chaitra	7548214545	Chaitra103	75482	Vijayawada	chaitra@gmail.com	NULL	NULL
2	108	Deepu	9658254110	Deepu108	96582	Turkey	deepu@gmail.com	NULL	NULL
3	114	Frank	9776211463	Frank114	97762	Srinagar	frank@gmail.com	NULL	NULL
4	101	Deepti	8549617542	Deepti101	85496	patna	deepti@gmail.com	NULL	NULL
5	100	Amrutha	904517852	Amrutha100	90451	Mumbai	amrutha@gmail.com	NULL	NULL
6	117	Daniel	7475825035	Daniel117	74758	Mumbai	daniel@gmail.com	NULL	NULL
7	118	Olivia	9658964122	Oliva118	96589	Mumbai	olivia@gmail.com	NULL	NULL
8	119	Mia	9001414121	Mia119	90014	Mumbai	mia@gmail.com	NULL	NULL
9	121	Amrutha	904517852	Amrutha100	90451	Mumbai	amrutha@gmail.com	20	NULL
10	107	Keerthi	9635285502	Keerti107	96352	London	keerti@gmail.com	NULL	NULL
11	104	leesha	9638527410	leesha104	96385	Kurnool	ieesha@gmail.com	NULL	NULL
12	110	Sree	8446195232	Sree110	84461	Kadapa	sree@gmail.com	NULL	NULL
13	105	Robin	9548525502	Robin105	95485	Hyderabad	robin@gmail.com	NULL	NULL
14	122	Preeti	9196947530	Preeti122	91969	Hyd	preeti@gmail.com	20	Shetty
15	112	Ruthik	9445800012	Ruthik112	94458	Hubbali	ruthik@gmail.com	NULL	NULL
16	116	Rocky	9330014485	Rocky116	93300	Gujarat	rocky@gmail.com	NULL	NULL
17	109	Vani	9952400123	Vani109	99240	Goa	vani@gmail.com	NULL	NULL
18	111	Shruti	9774520899	Shruti111	97745	Dharwad	shruti@gmail.com	NULL	NULL
19	102	Ranjolkar	8675142960	Ranjolkar102	86751	Delhi	ranjokar@gmail.com	NULL	NULL
20	115	Bob	7447458100	Bob115	74474	China	bob@gmail.com	NULL	NULL
21	113	Karthik	9102486147	Karthik113	91024	Belgum	karthik@gmail.com	NULL	NULL
22	106	Roja	7542154150	Roja106	75421	America	roja@gmail.com	NULL	NULL


```
SELECT customer_address,COUNT(*)
FROM T10_customerdetails
GROUP BY customer_address ;
```



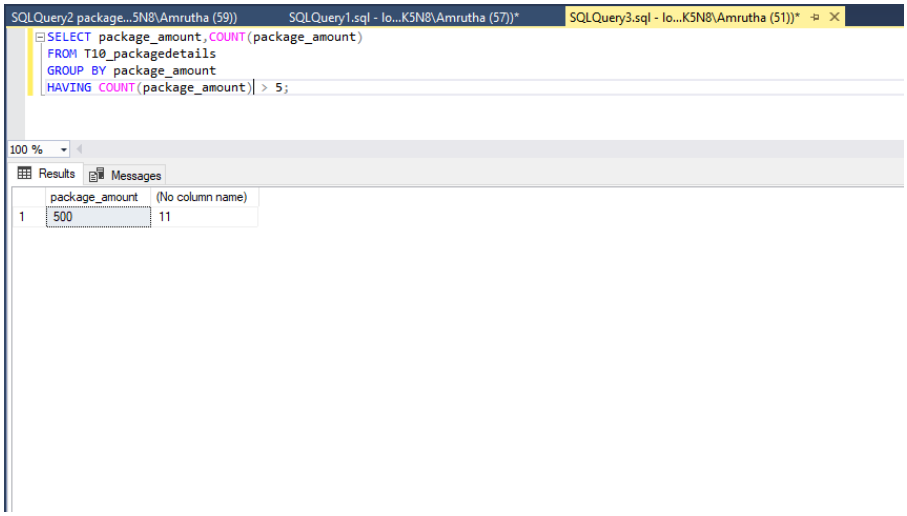
	customer_address	(No column name)
1	America	1
2	Belgum	1
3	China	1
4	Delhi	1
5	Dharwad	1
6	Goa	1
7	Gujarat	1
8	Hubbali	1
9	Hyd	1
10	Hyderabad	1
11	Kadapa	1
12	Kurnool	1
13	London	1
14	Mumbai	5
15	patna	1
16	Srinagar	1
17	Turkey	1
18	Vijayawada	1

```
SELECT package_amount,COUNT(*)
FROM T10_packagedetails
GROUP BY package_amount;
```

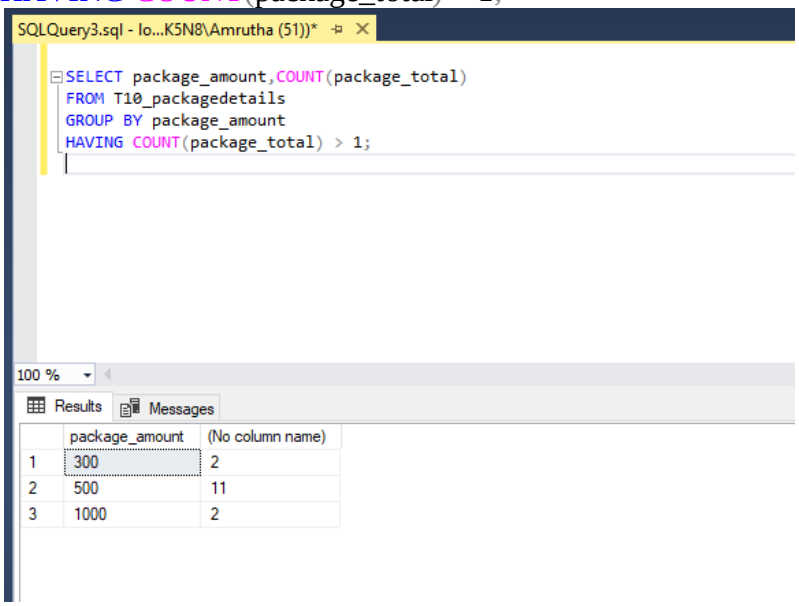


	package_amount	(No column name)
1	100	1
2	300	2
3	400	1
4	500	11
5	600	1
6	700	1
7	900	1
8	1000	2

```
SELECT package_amount,COUNT(package_amount)
FROM T10_packagedetails
GROUP BY package_amount
HAVING COUNT(package_amount) > 5;
```

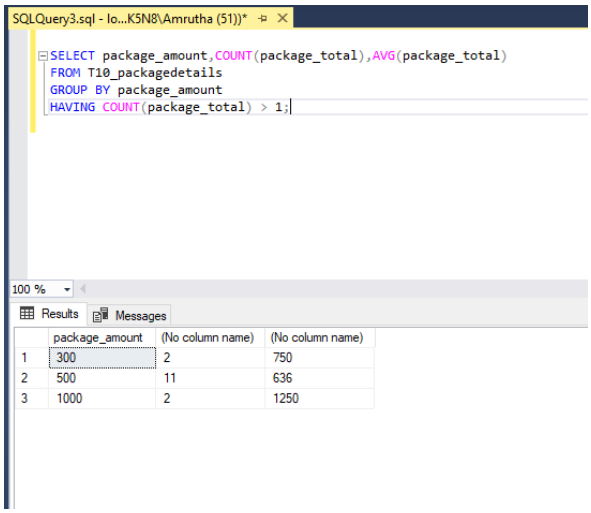



```
SELECT package_amount,COUNT(package_total)
FROM T10_packagedetails
GROUP BY package_amount
HAVING COUNT(package_total) > 1;
```



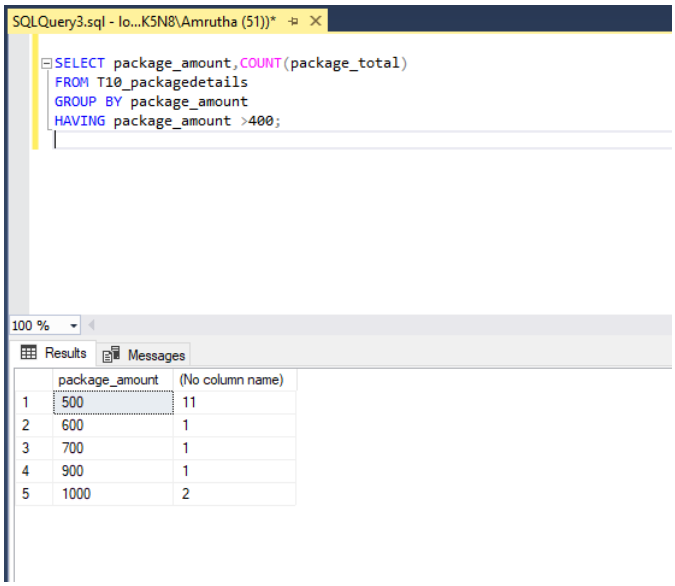
4. Use Aggregate function with group by and having

```
SELECT package_amount,COUNT(package_total),AVG(package_total)
FROM T10_packagedetails
GROUP BY package_amount
HAVING COUNT(package_total) > 1;
```



	package_amount	(No column name)	(No column name)
1	300	2	750
2	500	11	636
3	1000	2	1250

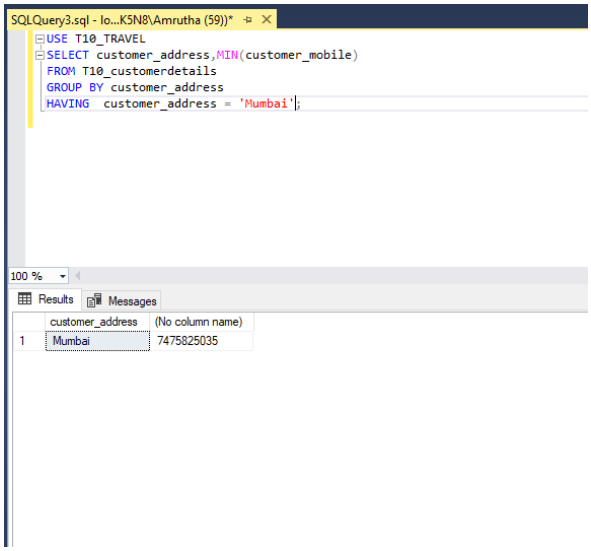
```
SELECT package_amount,COUNT(package_total)
FROM T10_packagedetails
GROUP BY package_amount
HAVING package_amount >400;
```



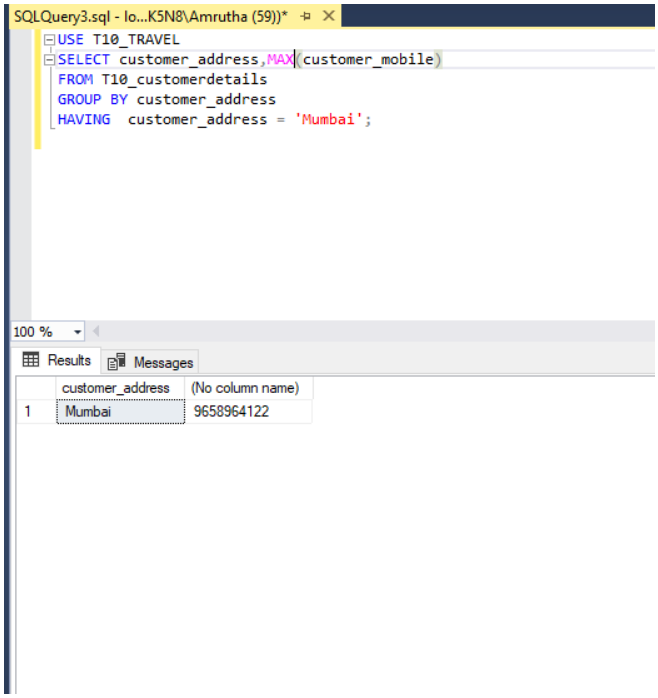
	package_amount	(No column name)
1	500	11
2	600	1
3	700	1
4	900	1
5	1000	2

```
USE T10_TRAVEL
SELECT customer_address,MIN(customer_mobile)
FROM T10_customerdetails
GROUP BY customer_address
```

```
HAVING  customer_address = 'Mumbai';
```

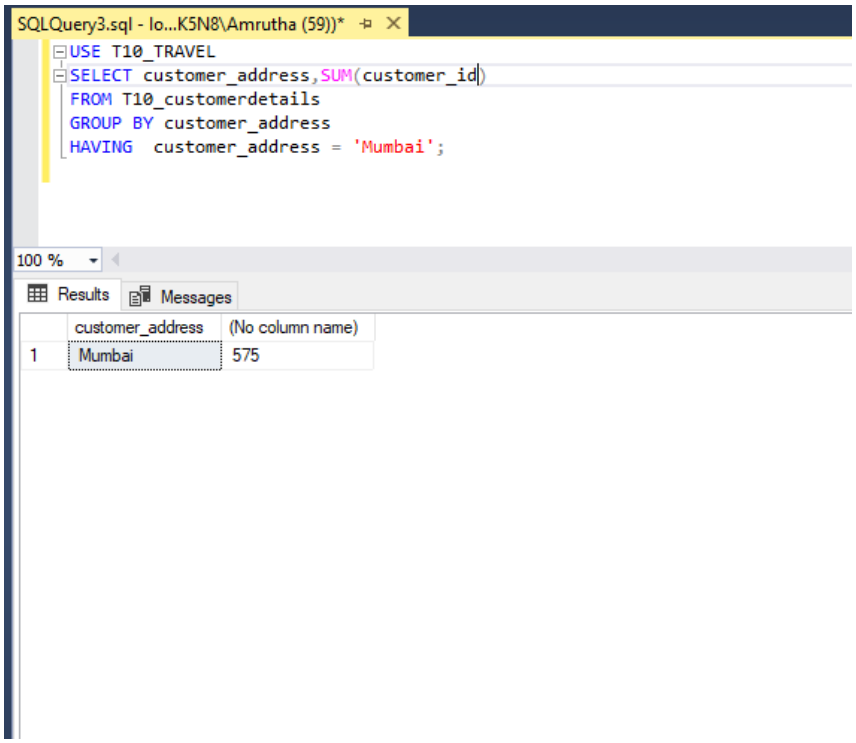



```
USE T10_TRAVEL
SELECT customer_address,MAX(customer_mobile)
FROM T10_customerdetails
GROUP BY customer_address
HAVING  customer_address = 'Mumbai';
```




```
USE T10_TRAVEL
```

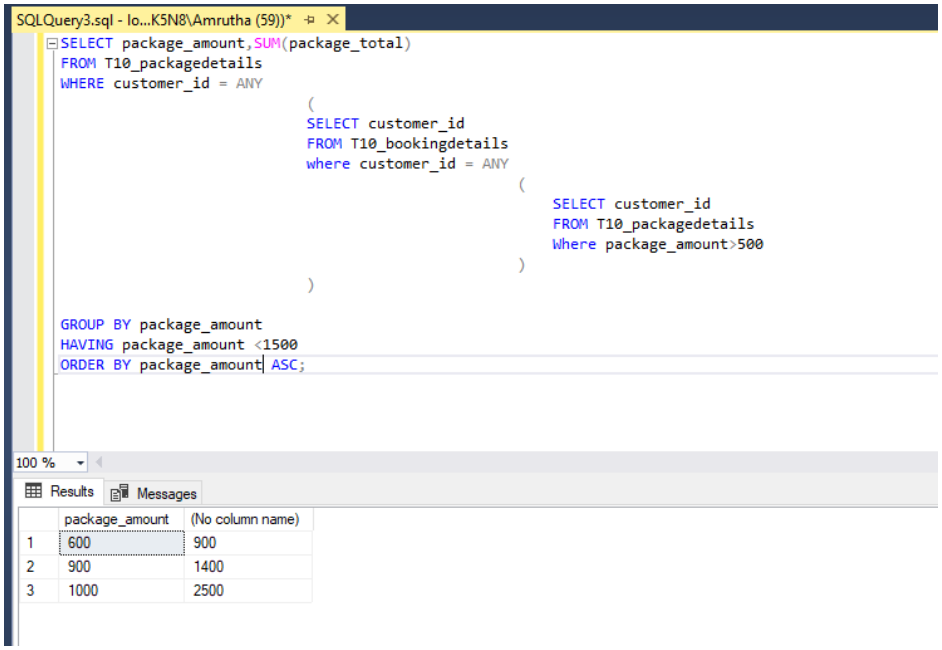
```
SELECT customer_address,SUM(customer_id)
FROM T10_customerdetails
GROUP BY customer_address
HAVING  customer_address = 'Mumbai';
```



5. Write at least 3 nested queries using order by, group by and having clause.

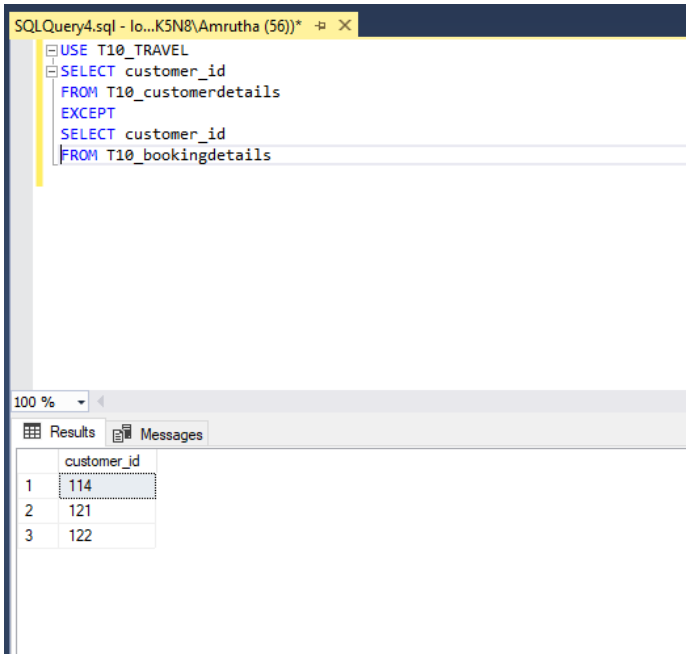
```
SELECT package_amount,SUM(package_total)
FROM T10_packagedetails
WHERE customer_id = ANY
                                        (
                                        SELECT customer_id
                                        FROM T10_bookingdetails
                                        where customer_id = ANY

        (

        SELECT customer_id

        FROM T10_packagedetails

        Where package_amount>500

        )
                                        )
```

```
GROUP BY package_amount
HAVING package_amount <1500
ORDER BY package_amount ASC;
```



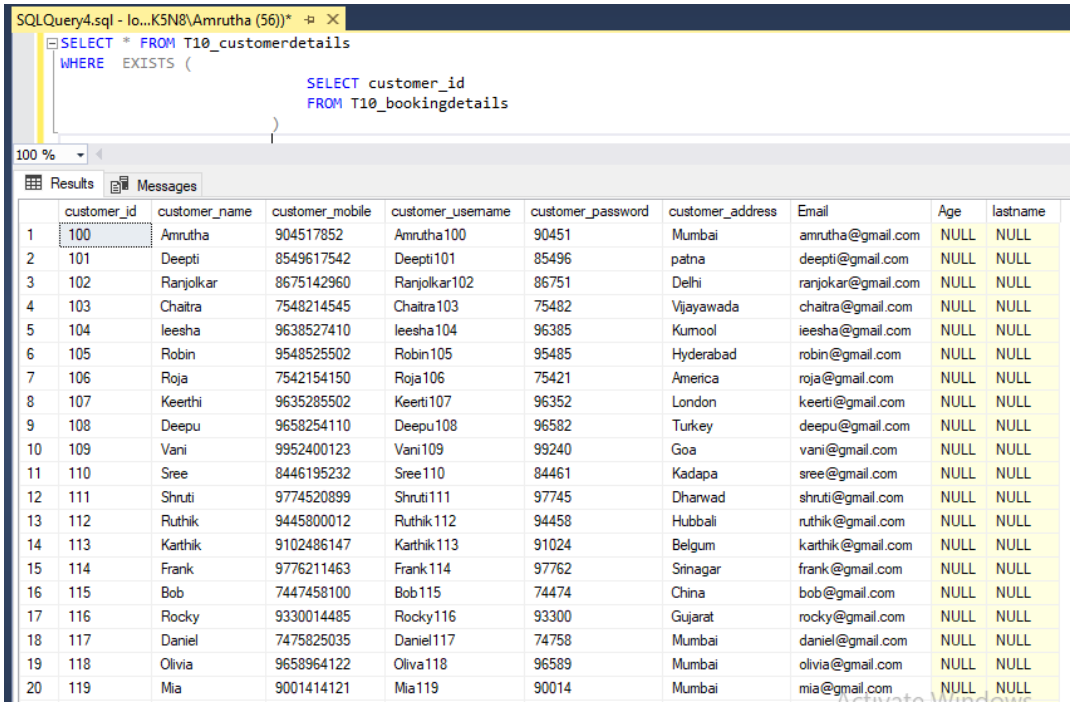
6. Illustrate the Usage of Except, Exists, Not Exists, Union, Intersection

```
USE T10_TRAVEL
SELECT customer_id
FROM T10_customerdetails
EXCEPT
SELECT customer_id
FROM T10_bookingdetails
```



	customer_id
1	114
2	121
3	122

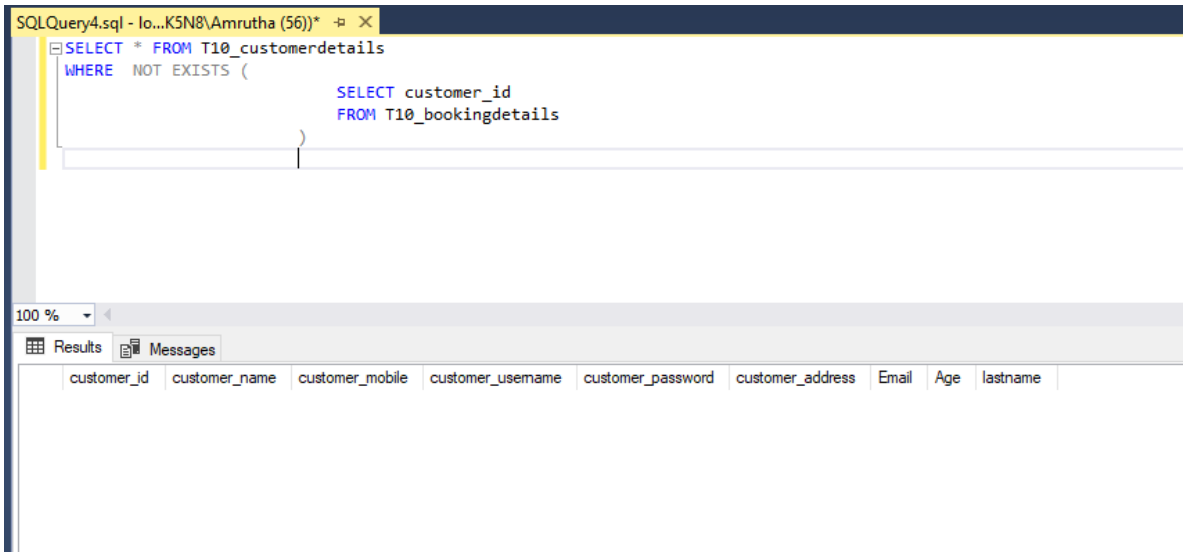
```
SELECT * FROM T10_customerdetails
WHERE  EXISTS (
                        SELECT customer_id
                        FROM T10_bookingdetails
                    )
```



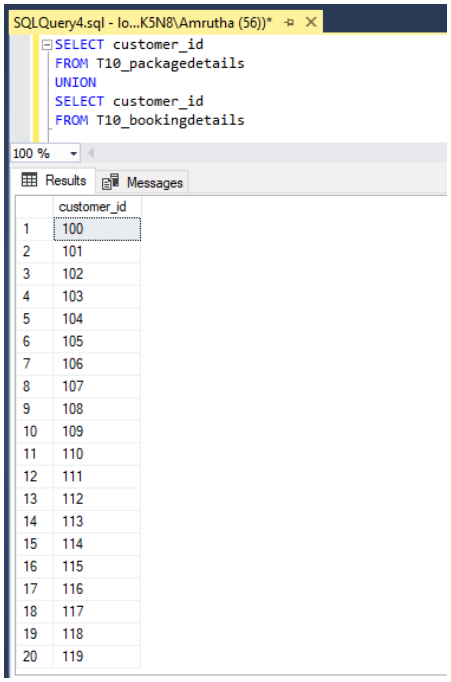
	customer_id	customer_name	customer_mobile	customer_username	customer_password	customer_address	Email	Age	lastname
1	100	Amrutha	904517852	Amrutha100	90451	Mumbai	amrutha@gmail.com	NULL	NULL
2	101	Deepti	8549617542	Deepti101	85496	patna	deepti@gmail.com	NULL	NULL
3	102	Ranjolkar	8675142960	Ranjolkar102	86751	Delhi	ranjokar@gmail.com	NULL	NULL
4	103	Chaitra	7548214545	Chaitra103	75482	Vijayawada	chaitra@gmail.com	NULL	NULL
5	104	leesha	9638527410	leesha104	96385	Kurnool	ieesha@gmail.com	NULL	NULL
6	105	Robin	9548525502	Robin105	95485	Hyderabad	robin@gmail.com	NULL	NULL
7	106	Roja	7542154150	Roja106	75421	America	roja@gmail.com	NULL	NULL
8	107	Keerthi	9635285502	Keerti107	96352	London	keerti@gmail.com	NULL	NULL
9	108	Deepu	9658254110	Deepu108	96582	Turkey	deepu@gmail.com	NULL	NULL
10	109	Vani	9952400123	Vani109	99240	Goa	vani@gmail.com	NULL	NULL
11	110	Sree	8446195232	Sree110	84461	Kadapa	sree@gmail.com	NULL	NULL
12	111	Shruti	9774520899	Shruti111	97745	Dharwad	shruti@gmail.com	NULL	NULL
13	112	Ruthik	9445800012	Ruthik112	94458	Hubbali	ruthik@gmail.com	NULL	NULL
14	113	Karthik	9102486147	Karthik113	91024	Belgum	karthik@gmail.com	NULL	NULL
15	114	Frank	9776211463	Frank114	97762	Srinagar	frank@gmail.com	NULL	NULL
16	115	Bob	7447458100	Bob115	74474	China	bob@gmail.com	NULL	NULL
17	116	Rocky	9330014485	Rocky116	93300	Gujarat	rocky@gmail.com	NULL	NULL
18	117	Daniel	7475825035	Daniel117	74758	Mumbai	daniel@gmail.com	NULL	NULL
19	118	Olivia	9658964122	Oliva118	96589	Mumbai	olivia@gmail.com	NULL	NULL
20	119	Mia	9001414121	Mia119	90014	Mumbai	mia@gmail.com	NULL	NULL

```
SELECT * FROM T10_customerdetails
```

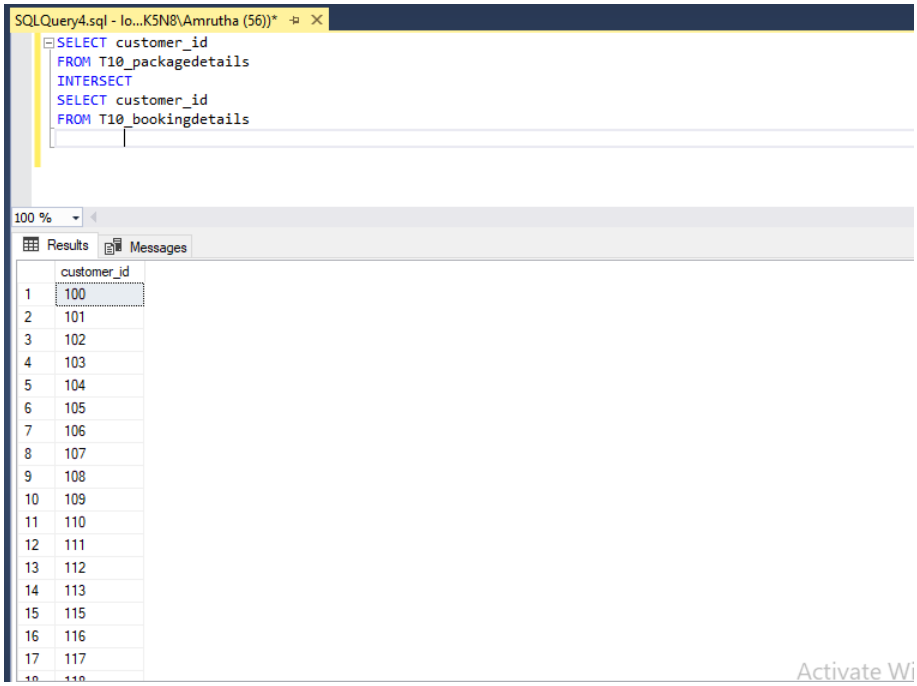
```
WHERE  NOT EXISTS (
                                    SELECT customer_id
                                    FROM T10_bookingdetails
                                )
```




```
SELECT customer_id
FROM T10_packagedetails
UNION
SELECT customer_id
FROM T10_bookingdetails
```

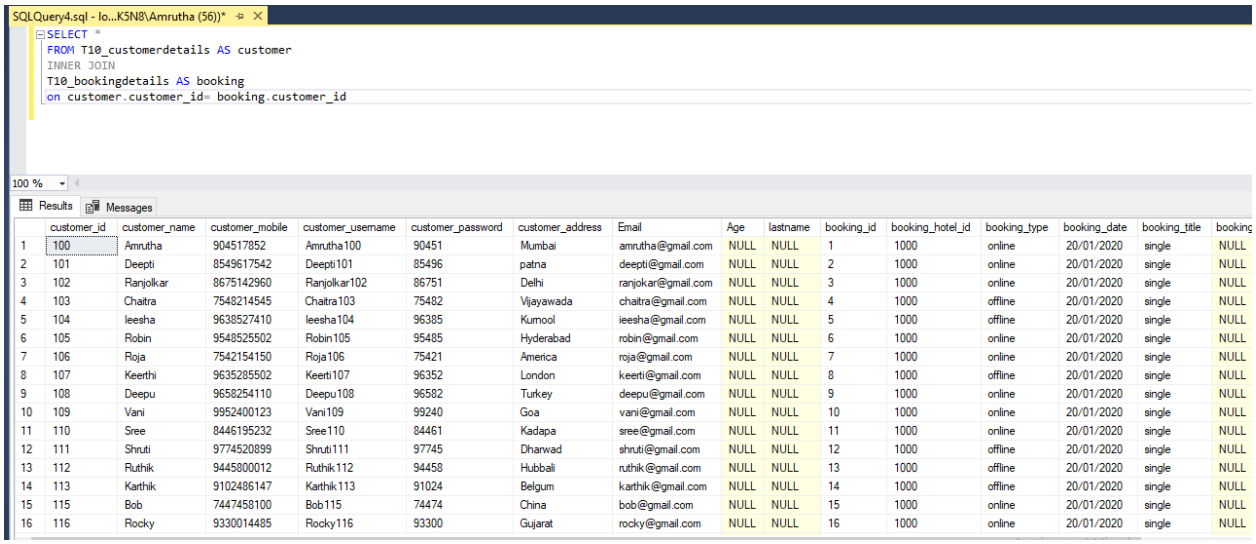



```
SELECT customer_id
FROM T10_packagedetails
INTERSECT
SELECT customer_id
FROM T10_bookingdetails
```



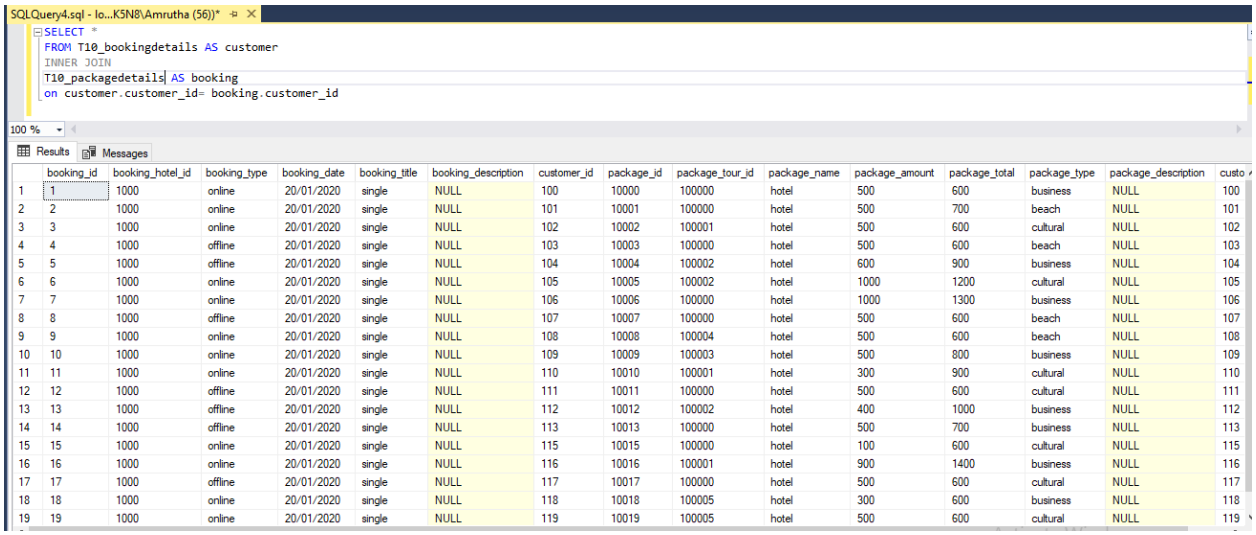
7. INNER JOIN, LEFT OUTER JOIN, RIGHT OUTER JOIN- 3 queries for each instance

```
SELECT *
FROM T10_customerdetails AS customer
INNER JOIN
T10_bookingdetails AS booking
on customer.customer_id= booking.customer_id
```



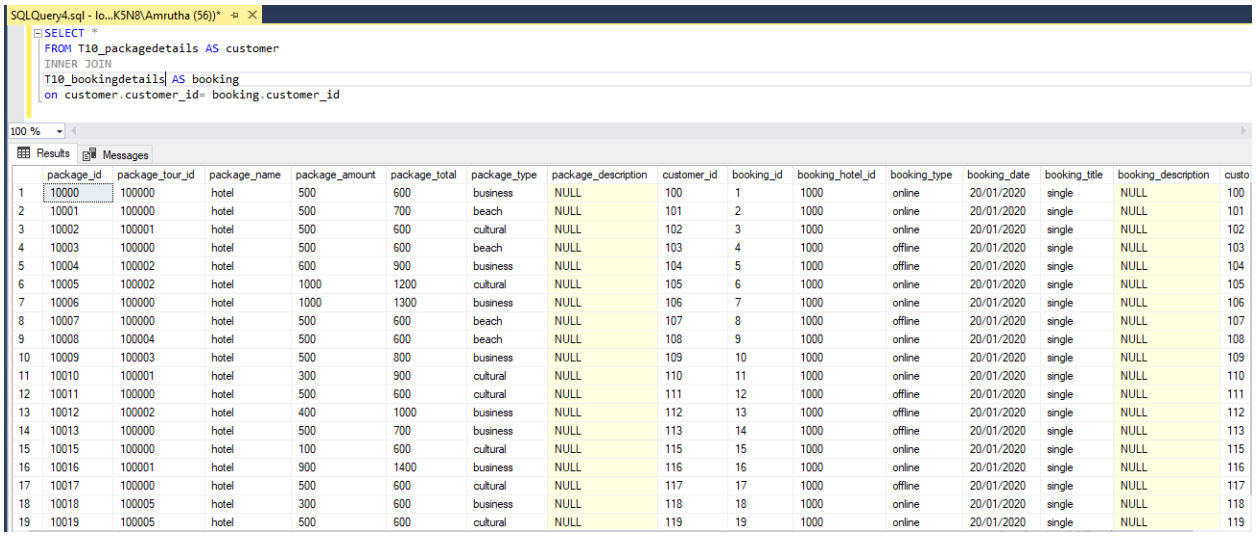
	customer_id	customer_name	customer_mobile	customer_username	customer_password	customer_address	Email	Age	lastname	booking_id	booking_hotel_id	booking_type	booking_date	booking_title	booking
1	100	Amrutha	904517852	Amrutha100	90451	Mumbai	amrutha@gmail.com	NULL	NULL	1	1000	online	20/01/2020	single	NULL
2	101	Deepti	8549617542	Deepti101	85496	patna	deepti@gmail.com	NULL	NULL	2	1000	online	20/01/2020	single	NULL
3	102	Ranjolkar	8675142960	Ranjolkar102	86751	Delhi	ranjokar@gmail.com	NULL	NULL	3	1000	online	20/01/2020	single	NULL
4	103	Chaitra	7548214545	Chaitra103	75482	Vijayawada	chaitra@gmail.com	NULL	NULL	4	1000	offline	20/01/2020	single	NULL
5	104	leesha	9638527410	leesha104	96385	Kurnool	ieesha@gmail.com	NULL	NULL	5	1000	offline	20/01/2020	single	NULL
6	105	Robin	9548525502	Robin105	95485	Hyderabad	robin@gmail.com	NULL	NULL	6	1000	online	20/01/2020	single	NULL
7	106	Roja	7542154150	Roja106	75421	America	roja@gmail.com	NULL	NULL	7	1000	online	20/01/2020	single	NULL
8	107	Keerthi	9635285502	Keerti107	96352	London	keerti@gmail.com	NULL	NULL	8	1000	offline	20/01/2020	single	NULL
9	108	Deepu	9658254110	Deepu108	96582	Turkey	deepu@gmail.com	NULL	NULL	9	1000	online	20/01/2020	single	NULL
10	109	Vani	9952400123	Vani109	99240	Goa	vani@gmail.com	NULL	NULL	10	1000	online	20/01/2020	single	NULL
11	110	Sree	8446195232	Sree110	84461	Kadapa	sree@gmail.com	NULL	NULL	11	1000	online	20/01/2020	single	NULL
12	111	Shruti	9774520899	Shruti111	97745	Dharwad	shruti@gmail.com	NULL	NULL	12	1000	offline	20/01/2020	single	NULL
13	112	Ruthik	9445800012	Ruthik112	94458	Hubbali	ruthik@gmail.com	NULL	NULL	13	1000	offline	20/01/2020	single	NULL
14	113	Karthik	9102486147	Karthik113	91024	Belgum	karthik@gmail.com	NULL	NULL	14	1000	offline	20/01/2020	single	NULL
15	115	Bob	7447458100	Bob115	74474	China	bob@gmail.com	NULL	NULL	15	1000	online	20/01/2020	single	NULL
16	116	Rocky	9330014485	Rocky116	93300	Gujarat	rocky@gmail.com	NULL	NULL	16	1000	online	20/01/2020	single	NULL

```
SELECT *
FROM T10_bookingdetails AS customer
INNER JOIN
T10_packagedetails AS booking
on customer.customer_id= booking.customer_id
```



	booking_id	booking_hotel_id	booking_type	booking_date	booking_title	booking_description	customer_id	package_id	package_tour_id	package_name	package_amount	package_total	package_type	package_description	custo
1	1	1000	online	20/01/2020	single	NULL	100	10000	100000	hotel	500	600	business	NULL	100
2	2	1000	online	20/01/2020	single	NULL	101	10001	100000	hotel	500	700	beach	NULL	101
3	3	1000	online	20/01/2020	single	NULL	102	10002	100001	hotel	500	600	cultural	NULL	102
4	4	1000	offline	20/01/2020	single	NULL	103	10003	100000	hotel	500	600	beach	NULL	103
5	5	1000	offline	20/01/2020	single	NULL	104	10004	100002	hotel	600	900	business	NULL	104
6	6	1000	online	20/01/2020	single	NULL	105	10005	100002	hotel	1000	1200	cultural	NULL	105
7	7	1000	online	20/01/2020	single	NULL	106	10006	100000	hotel	1000	1300	business	NULL	106
8	8	1000	offline	20/01/2020	single	NULL	107	10007	100000	hotel	500	600	beach	NULL	107
9	9	1000	online	20/01/2020	single	NULL	108	10008	100004	hotel	500	600	beach	NULL	108
10	10	1000	online	20/01/2020	single	NULL	109	10009	100003	hotel	500	800	business	NULL	109
11	11	1000	online	20/01/2020	single	NULL	110	10010	100001	hotel	300	900	cultural	NULL	110
12	12	1000	offline	20/01/2020	single	NULL	111	10011	100000	hotel	500	600	cultural	NULL	111
13	13	1000	offline	20/01/2020	single	NULL	112	10012	100002	hotel	400	1000	business	NULL	112
14	14	1000	offline	20/01/2020	single	NULL	113	10013	100000	hotel	500	700	business	NULL	113
15	15	1000	online	20/01/2020	single	NULL	115	10015	100000	hotel	100	600	cultural	NULL	115
16	16	1000	online	20/01/2020	single	NULL	116	10016	100001	hotel	900	1400	business	NULL	116
17	17	1000	offline	20/01/2020	single	NULL	117	10017	100000	hotel	500	600	cultural	NULL	117
18	18	1000	online	20/01/2020	single	NULL	118	10018	100005	hotel	300	600	business	NULL	118
19	19	1000	online	20/01/2020	single	NULL	119	10019	100005	hotel	500	600	cultural	NULL	119

```
SELECT *
FROM T10_packagedetails AS customer
INNER JOIN
T10_bookingdetails AS booking
on customer.customer_id= booking.customer_id
```



SQLQuery4.sql - lo...K5N8\Amrutha (56))*

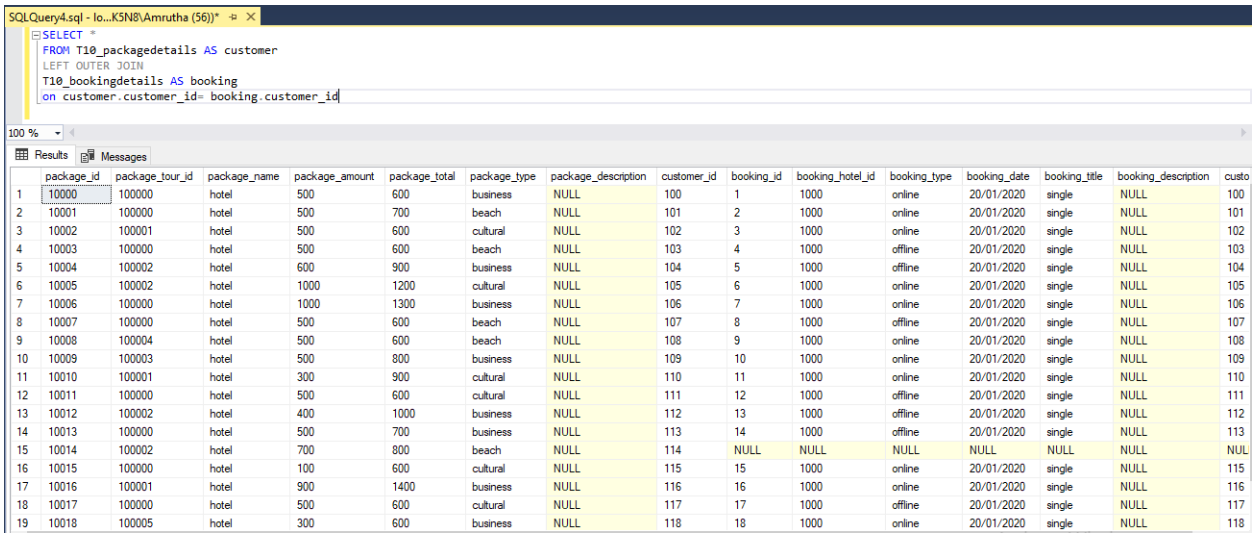
```
SELECT *
FROM T10_packagedetails AS customer
INNER JOIN
T10_bookingdetails AS booking
on customer.customer_id= booking.customer_id
```

100 %

Results | Messages

	package_id	package_tour_id	package_name	package_amount	package_total	package_type	package_description	customer_id	booking_id	booking_hotel_id	booking_type	booking_date	booking_title	booking_description	custo
1	10000	100000	hotel	500	600	business	NULL	100	1	1000	online	20/01/2020	single	NULL	100
2	10001	100000	hotel	500	700	beach	NULL	101	2	1000	online	20/01/2020	single	NULL	101
3	10002	100001	hotel	500	600	cultural	NULL	102	3	1000	online	20/01/2020	single	NULL	102
4	10003	100000	hotel	500	600	beach	NULL	103	4	1000	offline	20/01/2020	single	NULL	103
5	10004	100002	hotel	600	900	business	NULL	104	5	1000	offline	20/01/2020	single	NULL	104
6	10005	100002	hotel	1000	1200	cultural	NULL	105	6	1000	online	20/01/2020	single	NULL	105
7	10006	100000	hotel	1000	1300	business	NULL	106	7	1000	online	20/01/2020	single	NULL	106
8	10007	100000	hotel	500	600	beach	NULL	107	8	1000	offline	20/01/2020	single	NULL	107
9	10008	100004	hotel	500	600	beach	NULL	108	9	1000	online	20/01/2020	single	NULL	108
10	10009	100003	hotel	500	800	business	NULL	109	10	1000	online	20/01/2020	single	NULL	109
11	10010	100001	hotel	300	900	cultural	NULL	110	11	1000	online	20/01/2020	single	NULL	110
12	10011	100000	hotel	500	600	cultural	NULL	111	12	1000	offline	20/01/2020	single	NULL	111
13	10012	100002	hotel	400	1000	business	NULL	112	13	1000	offline	20/01/2020	single	NULL	112
14	10013	100000	hotel	500	700	business	NULL	113	14	1000	offline	20/01/2020	single	NULL	113
15	10015	100000	hotel	100	600	cultural	NULL	115	15	1000	online	20/01/2020	single	NULL	115
16	10016	100001	hotel	900	1400	business	NULL	116	16	1000	online	20/01/2020	single	NULL	116
17	10017	100000	hotel	500	600	cultural	NULL	117	17	1000	offline	20/01/2020	single	NULL	117
18	10018	100005	hotel	300	600	business	NULL	118	18	1000	online	20/01/2020	single	NULL	118
19	10019	100005	hotel	500	600	cultural	NULL	119	19	1000	online	20/01/2020	single	NULL	119

```
SELECT *
FROM T10_packagedetails AS customer
LEFT OUTER JOIN
T10_bookingdetails AS booking
on customer.customer_id= booking.customer_id
```



SQLQuery4.sql - lo...K5N8\Amrutha (56))*

```
SELECT *
FROM T10_packagedetails AS customer
LEFT OUTER JOIN
T10_bookingdetails AS booking
on customer.customer_id= booking.customer_id
```

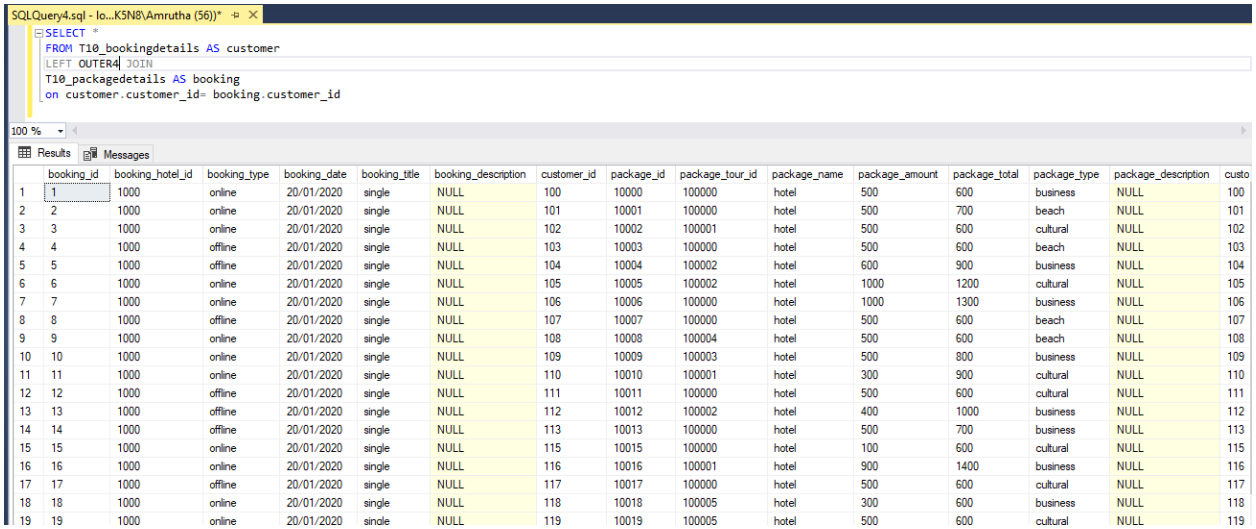
100 %

Results | Messages

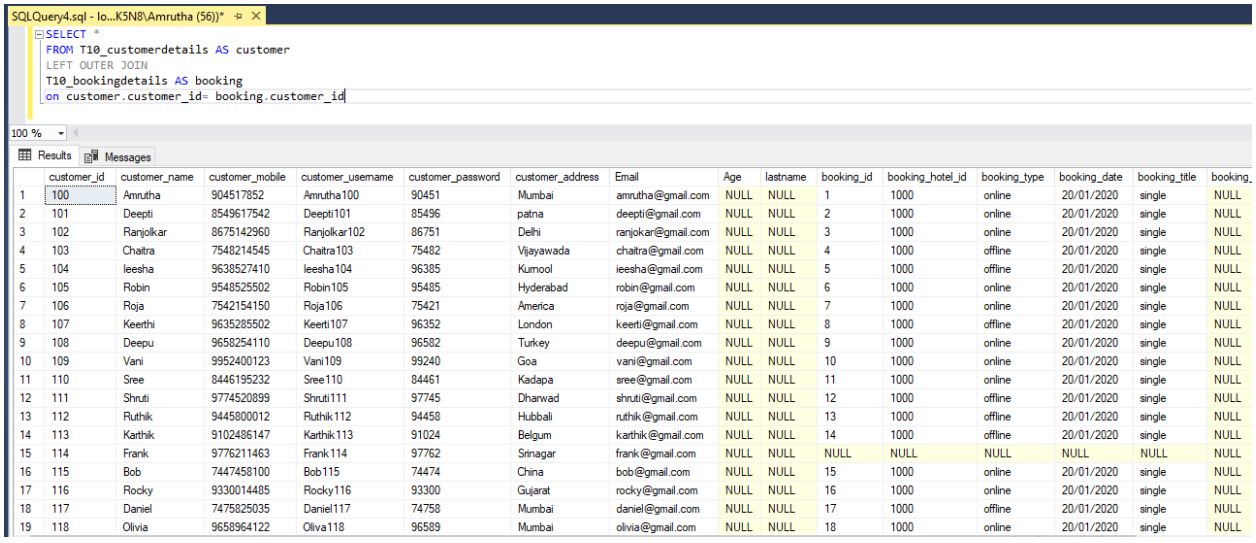
	package_id	package_tour_id	package_name	package_amount	package_total	package_type	package_description	customer_id	booking_id	booking_hotel_id	booking_type	booking_date	booking_title	booking_description	custo
1	10000	100000	hotel	500	600	business	NULL	100	1	1000	online	20/01/2020	single	NULL	100
2	10001	100000	hotel	500	700	beach	NULL	101	2	1000	online	20/01/2020	single	NULL	101
3	10002	100001	hotel	500	600	cultural	NULL	102	3	1000	online	20/01/2020	single	NULL	102
4	10003	100000	hotel	500	600	beach	NULL	103	4	1000	offline	20/01/2020	single	NULL	103
5	10004	100002	hotel	600	900	business	NULL	104	5	1000	offline	20/01/2020	single	NULL	104
6	10005	100002	hotel	1000	1200	cultural	NULL	105	6	1000	online	20/01/2020	single	NULL	105
7	10006	100000	hotel	1000	1300	business	NULL	106	7	1000	online	20/01/2020	single	NULL	106
8	10007	100000	hotel	500	600	beach	NULL	107	8	1000	offline	20/01/2020	single	NULL	107
9	10008	100004	hotel	500	600	beach	NULL	108	9	1000	online	20/01/2020	single	NULL	108
10	10009	100003	hotel	500	800	business	NULL	109	10	1000	online	20/01/2020	single	NULL	109
11	10010	100001	hotel	300	900	cultural	NULL	110	11	1000	online	20/01/2020	single	NULL	110
12	10011	100000	hotel	500	600	cultural	NULL	111	12	1000	offline	20/01/2020	single	NULL	111
13	10012	100002	hotel	400	1000	business	NULL	112	13	1000	offline	20/01/2020	single	NULL	112
14	10013	100000	hotel	500	700	business	NULL	113	14	1000	offline	20/01/2020	single	NULL	113
15	10014	100002	hotel	700	800	beach	NULL	114	NULL	NULL	NULL	NULL	NULL	NULL	NUL
16	10015	100000	hotel	100	600	cultural	NULL	115	15	1000	online	20/01/2020	single	NULL	115
17	10016	100001	hotel	900	1400	business	NULL	116	16	1000	online	20/01/2020	single	NULL	116
18	10017	100000	hotel	500	600	cultural	NULL	117	17	1000	offline	20/01/2020	single	NULL	117
19	10018	100005	hotel	300	600	business	NULL	118	18	1000	online	20/01/2020	single	NULL	118

```
SELECT *
FROM T10_bookingdetails AS customer
```

```
LEFT OUTER JOIN
T10_packagedetails AS booking
on customer.customer_id= booking.customer_id
```

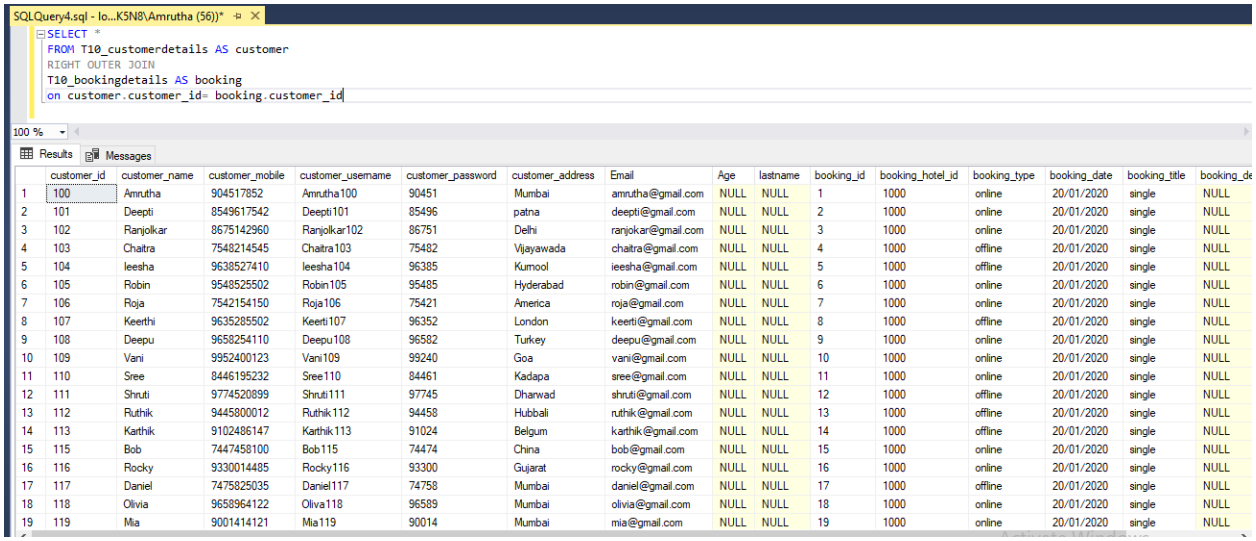


```
SELECT *
FROM T10_customerdetails AS customer
LEFT OUTER JOIN
T10_bookingdetails AS booking
on customer.customer_id= booking.customer_id
```



```
SELECT *
FROM T10_customerdetails AS customer
RIGHT OUTER JOIN
T10_bookingdetails AS booking
```

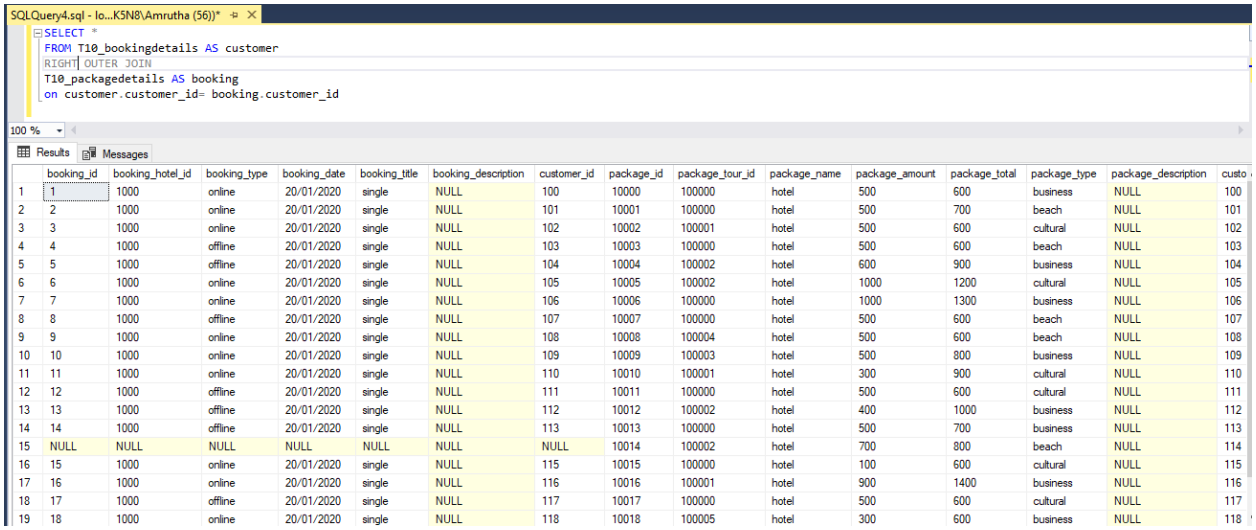
on customer.customer_id= booking.customer_id



```
SELECT *
FROM T10_customerdetails AS customer
RIGHT OUTER JOIN
T10_bookingdetails AS booking
on customer.customer_id= booking.customer_id
```

	customer_id	customer_name	customer_mobile	customer_username	customer_password	customer_address	Email	Age	lastname	booking_id	booking_hotel_id	booking_type	booking_date	booking_title	booking_de
1	100	Amrutha	904517852	Amrutha100	90451	Mumbai	amrutha@gmail.com	NULL	NULL	1	1000	online	20/01/2020	single	NULL
2	101	Deepti	8549617542	Deepti101	85496	patna	deepti@gmail.com	NULL	NULL	2	1000	online	20/01/2020	single	NULL
3	102	Ranjolkar	8675142960	Ranjolkar102	86751	Delhi	ranjokar@gmail.com	NULL	NULL	3	1000	online	20/01/2020	single	NULL
4	103	Chaitra	7548214545	Chaitra103	75482	Vijayawada	chaitra@gmail.com	NULL	NULL	4	1000	offline	20/01/2020	single	NULL
5	104	leesha	9638527410	leesha104	96385	Kurnool	ieesha@gmail.com	NULL	NULL	5	1000	offline	20/01/2020	single	NULL
6	105	Robin	9548525502	Robin105	95485	Hyderabad	robin@gmail.com	NULL	NULL	6	1000	online	20/01/2020	single	NULL
7	106	Roja	7542154150	Roja106	75421	America	roja@gmail.com	NULL	NULL	7	1000	online	20/01/2020	single	NULL
8	107	Keerthi	9635285502	Keerti107	96352	London	keerti@gmail.com	NULL	NULL	8	1000	offline	20/01/2020	single	NULL
9	108	Deepu	9658254110	Deepu108	96582	Turkey	deepu@gmail.com	NULL	NULL	9	1000	online	20/01/2020	single	NULL
10	109	Vani	9952400123	Vani109	99240	Goa	vani@gmail.com	NULL	NULL	10	1000	online	20/01/2020	single	NULL
11	110	Sree	8446195232	Sree110	84461	Kadapa	sree@gmail.com	NULL	NULL	11	1000	online	20/01/2020	single	NULL
12	111	Shruti	9774520899	Shruti111	97745	Dharwad	shruti@gmail.com	NULL	NULL	12	1000	offline	20/01/2020	single	NULL
13	112	Ruthik	9445800012	Ruthik112	94458	Hubbali	ruthik@gmail.com	NULL	NULL	13	1000	offline	20/01/2020	single	NULL
14	113	Karthik	9102486147	Karthik113	91024	Belgum	karthik@gmail.com	NULL	NULL	14	1000	offline	20/01/2020	single	NULL
15	115	Bob	7447458100	Bob115	74474	China	bob@gmail.com	NULL	NULL	15	1000	online	20/01/2020	single	NULL
16	116	Rocky	9330014485	Rocky116	93300	Gujarat	rocky@gmail.com	NULL	NULL	16	1000	online	20/01/2020	single	NULL
17	117	Daniel	7475825035	Daniel117	74758	Mumbai	daniel@gmail.com	NULL	NULL	17	1000	offline	20/01/2020	single	NULL
18	118	Olivia	9658964122	Oliva118	96589	Mumbai	olivia@gmail.com	NULL	NULL	18	1000	online	20/01/2020	single	NULL
19	119	Mia	9001414121	Mia119	90014	Mumbai	mia@gmail.com	NULL	NULL	19	1000	online	20/01/2020	single	NULL

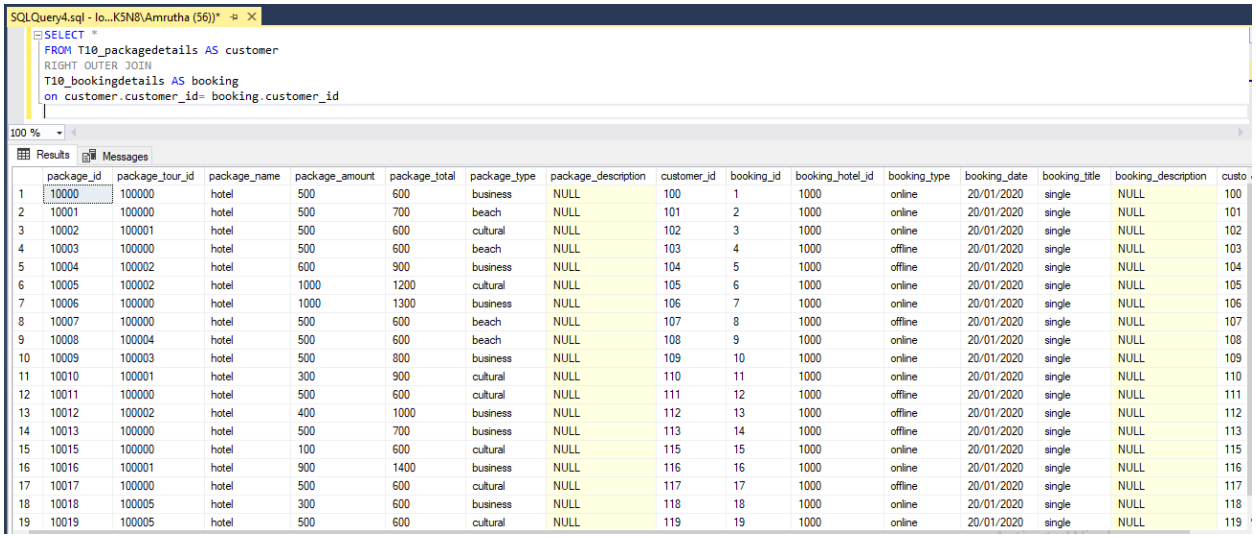
SELECT *
FROM T10_bookingdetails AS customer
RIGHT OUTER JOIN
T10_packagedetails AS booking
on customer.customer_id= booking.customer_id



```
SELECT *
FROM T10_bookingdetails AS customer
RIGHT OUTER JOIN
T10_packagedetails AS booking
on customer.customer_id= booking.customer_id
```

	booking_id	booking_hotel_id	booking_type	booking_date	booking_title	booking_description	customer_id	package_id	package_tour_id	package_name	package_amount	package_total	package_type	package_description	custo
1	1	1000	online	20/01/2020	single	NULL	100	10000	100000	hotel	500	600	business	NULL	100
2	2	1000	online	20/01/2020	single	NULL	101	10001	100000	hotel	500	700	beach	NULL	101
3	3	1000	online	20/01/2020	single	NULL	102	10002	100001	hotel	500	600	cultural	NULL	102
4	4	1000	offline	20/01/2020	single	NULL	103	10003	100000	hotel	500	600	beach	NULL	103
5	5	1000	offline	20/01/2020	single	NULL	104	10004	100002	hotel	600	900	business	NULL	104
6	6	1000	online	20/01/2020	single	NULL	105	10005	100002	hotel	1000	1200	cultural	NULL	105
7	7	1000	online	20/01/2020	single	NULL	106	10006	100000	hotel	1000	1300	business	NULL	106
8	8	1000	offline	20/01/2020	single	NULL	107	10007	100000	hotel	500	600	beach	NULL	107
9	9	1000	online	20/01/2020	single	NULL	108	10008	100004	hotel	500	600	beach	NULL	108
10	10	1000	online	20/01/2020	single	NULL	109	10009	100003	hotel	500	800	business	NULL	109
11	11	1000	online	20/01/2020	single	NULL	110	10010	100001	hotel	300	900	cultural	NULL	110
12	12	1000	offline	20/01/2020	single	NULL	111	10011	100000	hotel	500	600	cultural	NULL	111
13	13	1000	offline	20/01/2020	single	NULL	112	10012	100002	hotel	400	1000	business	NULL	112
14	14	1000	offline	20/01/2020	single	NULL	113	10013	100000	hotel	500	700	business	NULL	113
15	NULL	NULL	NULL	NULL	NULL	NULL	NULL	10014	100002	hotel	700	800	beach	NULL	114
16	15	1000	online	20/01/2020	single	NULL	115	10015	100000	hotel	100	600	cultural	NULL	115
17	16	1000	online	20/01/2020	single	NULL	116	10016	100001	hotel	900	1400	business	NULL	116
18	17	1000	offline	20/01/2020	single	NULL	117	10017	100000	hotel	500	600	cultural	NULL	117
19	18	1000	online	20/01/2020	single	NULL	118	10018	100005	hotel	300	600	business	NULL	118

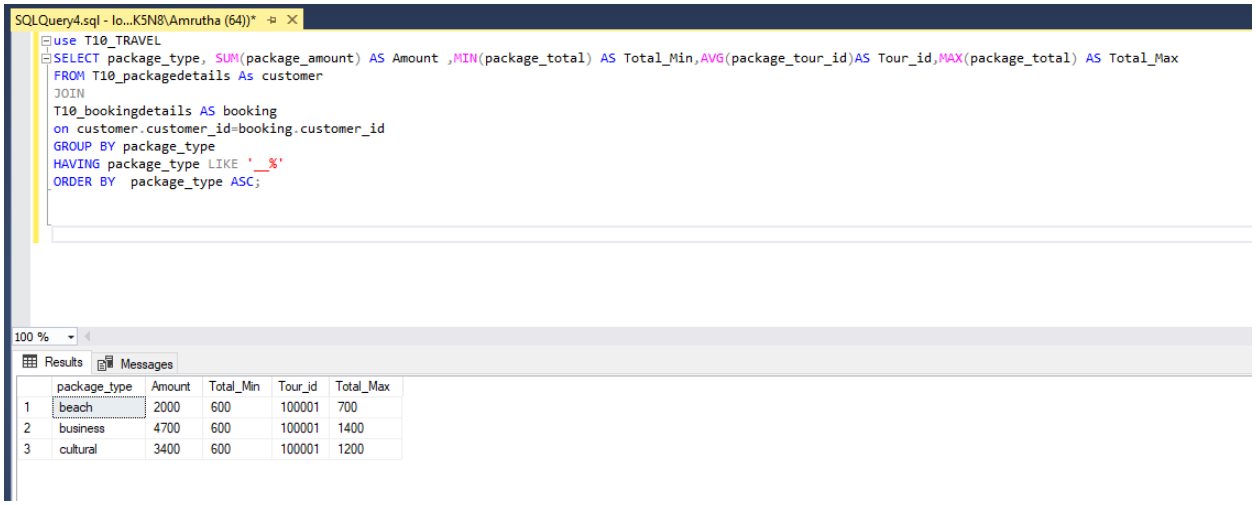
SELECT *
FROM T10_packagedetails AS customer
RIGHT OUTER JOIN
T10_bookingdetails AS booking
on customer.customer_id= booking.customer_id



	package_id	package_tour_id	package_name	package_amount	package_total	package_type	package_description	customer_id	booking_id	booking_hotel_id	booking_type	booking_date	booking_title	booking_description	custo
1	10000	100000	hotel	500	600	business	NULL	100	1	1000	online	20/01/2020	single	NULL	100
2	10001	100000	hotel	500	700	beach	NULL	101	2	1000	online	20/01/2020	single	NULL	101
3	10002	100001	hotel	500	600	cultural	NULL	102	3	1000	online	20/01/2020	single	NULL	102
4	10003	100000	hotel	500	600	beach	NULL	103	4	1000	offline	20/01/2020	single	NULL	103
5	10004	100002	hotel	600	900	business	NULL	104	5	1000	offline	20/01/2020	single	NULL	104
6	10005	100002	hotel	1000	1200	cultural	NULL	105	6	1000	online	20/01/2020	single	NULL	105
7	10006	100000	hotel	1000	1300	business	NULL	106	7	1000	online	20/01/2020	single	NULL	106
8	10007	100000	hotel	500	600	beach	NULL	107	8	1000	offline	20/01/2020	single	NULL	107
9	10008	100004	hotel	500	600	beach	NULL	108	9	1000	online	20/01/2020	single	NULL	108
10	10009	100003	hotel	500	800	business	NULL	109	10	1000	online	20/01/2020	single	NULL	109
11	10010	100001	hotel	300	900	cultural	NULL	110	11	1000	online	20/01/2020	single	NULL	110
12	10011	100000	hotel	500	600	cultural	NULL	111	12	1000	offline	20/01/2020	single	NULL	111
13	10012	100002	hotel	400	1000	business	NULL	112	13	1000	offline	20/01/2020	single	NULL	112
14	10013	100000	hotel	500	700	business	NULL	113	14	1000	offline	20/01/2020	single	NULL	113
15	10015	100000	hotel	100	600	cultural	NULL	115	15	1000	online	20/01/2020	single	NULL	115
16	10016	100001	hotel	900	1400	business	NULL	116	16	1000	online	20/01/2020	single	NULL	116
17	10017	100000	hotel	500	600	cultural	NULL	117	17	1000	offline	20/01/2020	single	NULL	117
18	10018	100005	hotel	300	600	business	NULL	118	18	1000	online	20/01/2020	single	NULL	118
19	10019	100005	hotel	500	600	cultural	NULL	119	19	1000	online	20/01/2020	single	NULL	119

8. Use all the above condition in JOIN as well.

```
use T10_TRAVEL
SELECT package_type, SUM(package_amount) AS Amount ,MIN(package_total) AS
Total_Min,AVG(package_tour_id)AS Tour_id,MAX(package_total) AS Total_Max
FROM T10_packagedetails As customer
JOIN
T10_bookingdetails AS booking
on customer.customer_id=booking.customer_id
GROUP BY package_type
HAVING package_type LIKE '__%'
ORDER BY  package_type ASC;
```



	package_type	Amount	Total_Min	Tour_id	Total_Max
1	beach	2000	600	100001	700
2	business	4700	600	100001	1400
3	cultural	3400	600	100001	1200