DBMS LAB ASSIGNMENT-5

Name: - B.Ieeshasree

Roll No. :-19BCS021.

Database: - Travel Agency

1. Illustrate logical ANY, ALL and LIKE operators

ANY

QUERY 1:-

```
SELECT *
FROM T10_customerdetailsNEW
WHERE customer_name < ANY (SELECT customer_name
                           FROM T10_customerdetailsNEW
                           WHERE customer_id < '6'
                          )
```

OUTPUT:

QUERY 2:-

```
 SELECT *
FROM T10_hoteldetails
WHERE hotel_id  < ANY (SELECT hotel_id
                       FROM T10_hoteldetails
                       WHERE hotel_rent=100
                      );
```

OUTPUT:-

```
SELECT *
FROM T10_hoteldetails
WHERE hotel_id < ANY (SELECT hotel_id
                      FROM T10_hoteldetails
                      WHERE hotel_rent=100
                      );
```

100 %

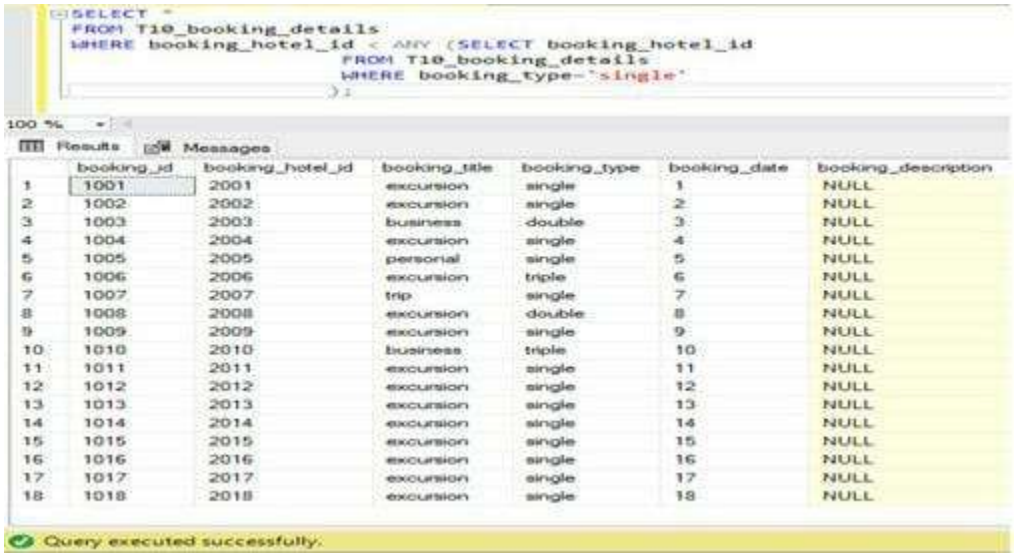
Results | Messages

	hotel_id	hotel_name	hotel_type	hotel_rent	hotel_description	hotel_address
1	101	chakri	single	200	NULL	vizag
2	102	Manasa	single	300	NULL	kovur

QUERY 3:-

```
SELECT *
FROM T10_booking_details
WHERE booking_hotel_id < ANY (SELECT booking_hotel_id
                      FROM T10_booking_details
                      WHERE booking_type='single'
                     );
```

OUTPUT:



```
SELECT *
FROM T10_booking_details
WHERE booking_hotel_id < ANY (SELECT booking_hotel_id
                      FROM T10_booking_details
                      WHERE booking_type='single'
                     );
```

100 %

Results | Messages

	booking_id	booking_hotel_id	booking_title	booking_type	booking_date	booking_description
1	1001	2001	excursion	single	1	NULL
2	1002	2002	excursion	single	2	NULL
3	1003	2003	business	double	3	NULL
4	1004	2004	excursion	single	4	NULL
5	1005	2005	personal	single	5	NULL
6	1006	2006	excursion	triple	6	NULL
7	1007	2007	trip	single	7	NULL
8	1008	2008	excursion	double	8	NULL
9	1009	2009	excursion	single	9	NULL
10	1010	2010	business	triple	10	NULL
11	1011	2011	excursion	single	11	NULL
12	1012	2012	excursion	single	12	NULL
13	1013	2013	excursion	single	13	NULL
14	1014	2014	excursion	single	14	NULL
15	1015	2015	excursion	single	15	NULL
16	1016	2016	excursion	single	16	NULL
17	1017	2017	excursion	single	17	NULL
18	1018	2018	excursion	single	18	NULL

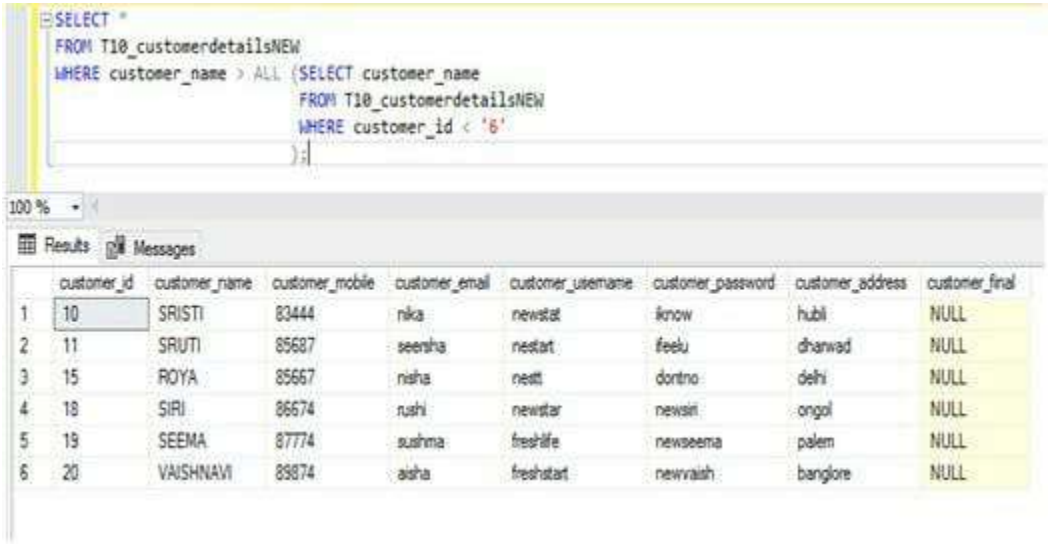
Query executed successfully.

ALL

QUERY 1:-

```
SELECT *
FROM T10_customerdetailsNEW
WHERE customer_name > ALL (SELECT customer_name
                           FROM T10_customerdetailsNEW
                           WHERE customer_id < '6'
                          );
```

OUTPUT:



```
SELECT *
FROM T10_customerdetailsNEW
WHERE customer_name > ALL (SELECT customer_name
                           FROM T10_customerdetailsNEW
                           WHERE customer_id < '6'
                          );
```

100 %

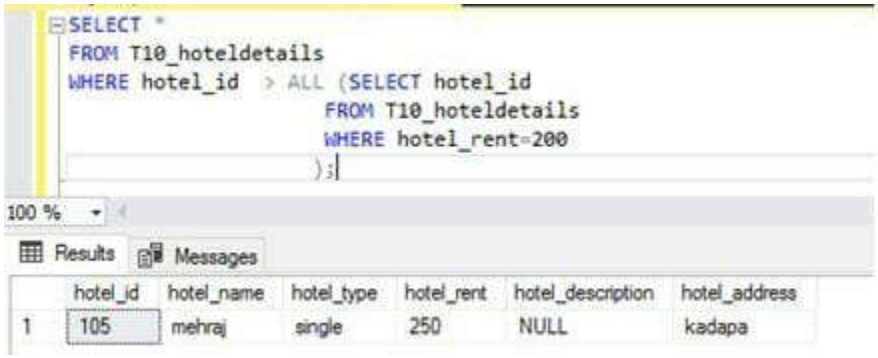
Results | Messages

	customer_id	customer_name	customer_mobile	customer_email	customer_username	customer_password	customer_address	customer_final
1	10	SRISTI	83444	nika	newstat	iknow	hubli	NULL
2	11	SRUTI	85687	seesha	nestart	feelu	dharwad	NULL
3	15	ROYA	85667	nisha	nestt	dontno	delhi	NULL
4	18	SIRI	86674	rushi	newstar	newsiri	ongol	NULL
5	19	SEEMA	87774	sushma	freshlife	newseema	palem	NULL
6	20	VAISHNAVI	89874	aisha	freshstart	newvaish	banglore	NULL

QUERY 2:-

```
SELECT *
FROM T10_hoteldetails
WHERE hotel_id  > ALL (SELECT hotel_id
                       FROM T10_hoteldetails
                       WHERE hotel_rent=200
                      );
```

OUTPUT:



```
SELECT *
FROM T10_hoteldetails
WHERE hotel_id  > ALL (SELECT hotel_id
                       FROM T10_hoteldetails
                       WHERE hotel_rent=200
                      );
```

100 %

Results | Messages

	hotel_id	hotel_name	hotel_type	hotel_rent	hotel_description	hotel_address
1	105	mehraj	single	250	NULL	kadapa

QUERY 3:-

```
 SELECT *
FROM T10_booking_details
WHERE booking_hotel_id > ALL (SELECT booking_hotel_id
                       FROM T10_booking_details
                       WHERE booking_type='double'
                      );
```

OUTPUT:

```
SELECT *
FROM T10_booking_details
WHERE booking_hotel_id > ALL (SELECT booking_hotel_id
                              FROM T10_booking_details
                              WHERE booking_type='double'
                             );
```

100 %

Results | Messages

	booking_id	booking_hotel_id	booking_title	booking_type	booking_date	booking_description
1	1009	2009	excursion	single	9	NULL
2	1010	2010	business	triple	10	NULL
3	1011	2011	excursion	single	11	NULL
4	1012	2012	excursion	single	12	NULL
5	1013	2013	excursion	single	13	NULL
6	1014	2014	excursion	single	14	NULL
7	1015	2015	excursion	single	15	NULL
8	1016	2016	excursion	single	16	NULL
9	1017	2017	excursion	single	17	NULL
10	1018	2018	excursion	single	18	NULL
11	1019	2019	excursion	single	19	NULL

LIKE

QUERY 1:-

```
SELECT *
FROM T10_customerdetailsNEW
WHERE customer_name LIKE 'C%';
```

OUTPUT:

```
SELECT *
FROM T10_customerdetailsNEW
WHERE customer_name LIKE 'C%';
```

100 %

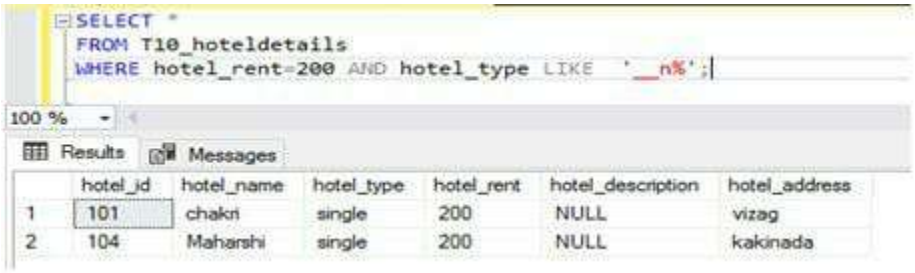
Results | Messages

	customer_id	customer_name	customer_mobile	customer_email	customer_username	customer_password	customer_address	customer_final
1	1	CHAITRA	82096	chaitra@gmail.com	msaichaitra	little	kadapa	NULL
2	2	CHAITRA	80825	chaitra	chaitrareddy	msaichaitra	kadapa	NULL

QUERY 2:-

```
SELECT *
FROM T10_hoteldetails
WHERE hotel_rent=200 AND hotel_type LIKE  '__n%';
```

OUTPUT:



	hotel_id	hotel_name	hotel_type	hotel_rent	hotel_description	hotel_address
1	101	chakri	single	200	NULL	vizag
2	104	Maharshi	single	200	NULL	kakinada

QUERY 3:

```
SELECT *
FROM T10_booking_details
WHERE booking_id LIKE '1%1'
```

OUTPUT:

	booking_id	booking_hotel_id	booking_title	booking_type	booking_date	booking_description
1	1001	2001	excursion	single	1	NULL
2	1011	2011	excursion	single	11	NULL

2. One query for each Aggregate function.

AVG() QUERY:-

```
SELECT AVG(hotel_rent)
FROM T10_hoteldetails
```

OUTPUT:

	(No column name)
1	210

COUNT() QUERY:-

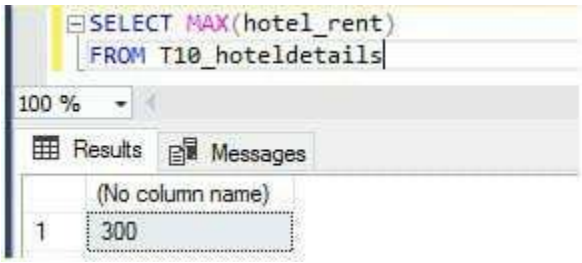
```
SELECT COUNT(*)
FROM T10_hoteldetails
WHERE hotel_type='single'
```

OUTPUT:

MAX() QUERY:-

```
SELECT MAX(hotel_rent)
FROM T10_hoteldetails
```

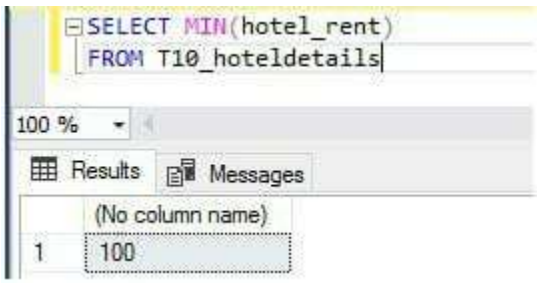
OUTPUT:



MIN() QUERY:-

```
SELECT MIN(hotel_rent)
FROM T10_hoteldetails
```

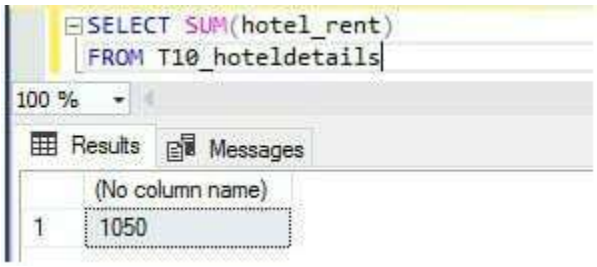
OUTPUT:



SUM() QUERY:-

```
 SELECT SUM(hotel_rent)
FROM T10_hoteldetails
```

OUTPUT:-



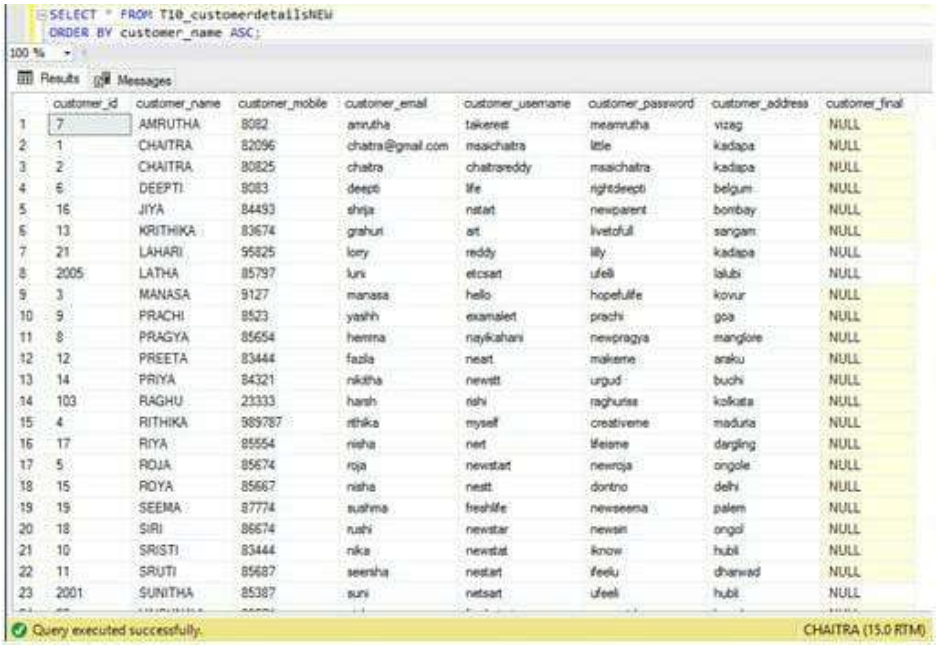
3. Illustrate the usage of order by, group by and having clause (2 queries for each case)

ORDER BY

QUERY 1:-

```
SELECT * FROM T10_customerdetailsNEW
ORDER BY customer_name ASC;
```

OUTPUT:-

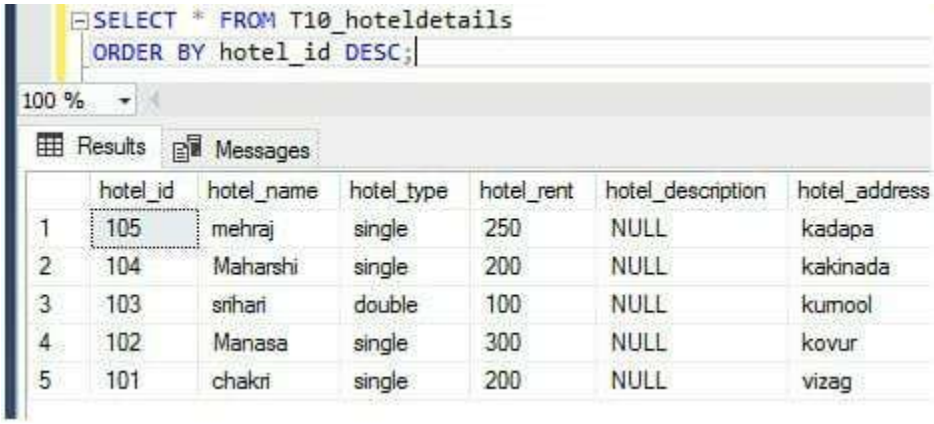


	customer_id	customer_name	customer_mobile	customer_email	customer_username	customer_password	customer_address	customer_final
1	7	AMRUTHA	8082	amrutha	takerest	meamrutha	vizag	NULL
2	1	CHAITRA	82096	chatra@gmail.com	msaichaitra	little	kadapa	NULL
3	2	CHAITRA	80825	chaitra	chaitrareddy	msaichaitra	kadapa	NULL
4	6	DEEPTI	9083	deepti	life	rightdeepti	belgum	NULL
5	16	JIYA	84453	shrija	nstart	newparent	bombay	NULL
6	13	KRITHIKA	83674	grahuri	art	livetofull	sangam	NULL
7	21	LAHARI	95825	lory	reddy	lilly	kadapa	NULL
8	2005	LATHA	85797	luni	etcsart	ufell	lalubi	NULL
9	3	MANASA	9127	manasa	hello	hopefullfe	kovur	NULL
10	9	PRACHI	8523	yashh	examalert	prachi	goa	NULL
11	8	PRAGYA	85654	hemna	nayikahani	newpragya	manglore	NULL
12	12	PREETA	83444	fazila	neart	makeme	araku	NULL
13	14	PRIYA	84321	nikitha	newstt	urgud	buchi	NULL
14	103	RAGHU	23333	harsh	rishi	raghuriss	kolkata	NULL
15	4	RITHIKA	989787	rithika	myself	creativeme	maduria	NULL
16	17	RIYA	85554	nisha	nert	lifeisme	dargling	NULL
17	5	ROJA	85674	roja	newstart	newroja	ongole	NULL
18	15	ROYA	85667	nisha	nestt	dontno	delhi	NULL
19	19	SEEMA	87774	sushma	freshlife	newseema	palem	NULL
20	18	SIRI	86674	rushi	newstar	newsiri	ongol	NULL
21	10	SRISTI	83444	nika	newstat	iknow	hubli	NULL
22	11	SRUTI	85687	seersha	nestart	ifeelu	dharwad	NULL
23	2001	SUNITHA	85387	suni	netsart	ufeeli	hubli	NULL

QUERY 2:-

```
SELECT * FROM T10_hoteldetails
ORDER BY hotel_id DESC;
```

OUTPUT:



```
SELECT * FROM T10_hoteldetails
ORDER BY hotel_id DESC;
```

100 %

Results | Messages

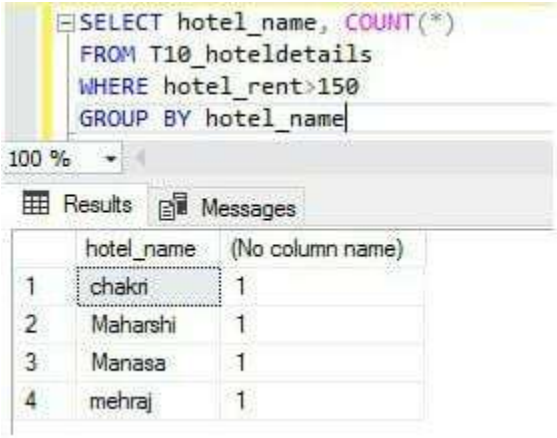
	hotel_id	hotel_name	hotel_type	hotel_rent	hotel_description	hotel_address
1	105	mehraj	single	250	NULL	kadapa
2	104	Maharshi	single	200	NULL	kakinada
3	103	srihari	double	100	NULL	kurnool
4	102	Manasa	single	300	NULL	kovur
5	101	chakri	single	200	NULL	vizag

GROUP BY

QUERY 1:

```
SELECT hotel_name, COUNT(*)
FROM T10_hoteldetails
WHERE hotel_rent>150
GROUP BY hotel_name
```

OUTPUT:



```
SELECT hotel_name, COUNT(*)
FROM T10_hoteldetails
WHERE hotel_rent>150
GROUP BY hotel_name
```

100 %

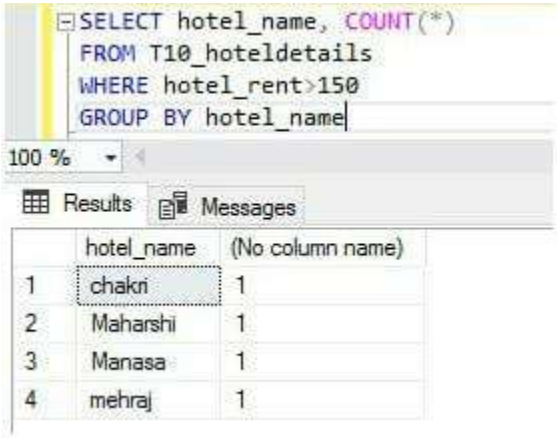
Results | Messages

	hotel_name	(No column name)
1	chakri	1
2	Maharshi	1
3	Manasa	1
4	mehraj	1

QUERY 2:-

```
SELECT customer_name, COUNT(*)
FROM T10_customerdetailsNEW
GROUP BY customer_name
```

OUTPUT:

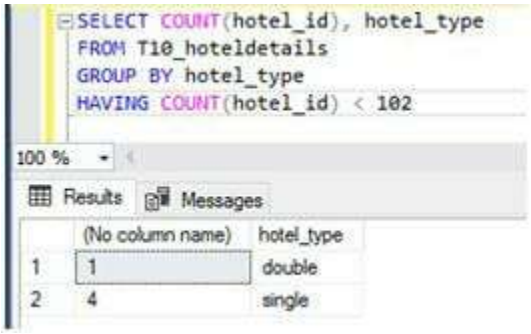


HAVING CLAUSE

QUERY 1:-

```
SELECT COUNT(hotel_id), hotel_type
FROM T10_hoteldetails
GROUP BY hotel_type
HAVING COUNT(hotel_id) < 102
```

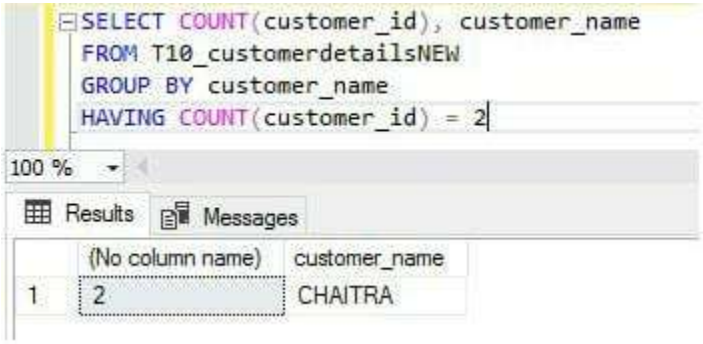
OUTPUT:



QUERY 2:-

```
SELECT COUNT(customer_id), customer_name
FROM T10_customerdetailsNEW
GROUP BY customer_name
HAVING COUNT(customer_id) = 2
```

OUTPUT:

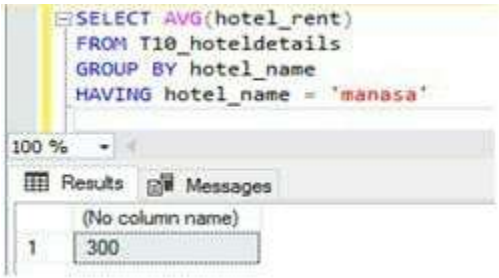


4. Use Aggregate function with group by and having

AVG() QUERY:-

```
SELECT AVG(hotel_rent)
FROM T10_hoteldetails
GROUP BY hotel_name
HAVING hotel_name = 'manasa'
```

OUTPUT:-



COUNT() QUERY:-

```
SELECT COUNT(hotel_id)
FROM T10_hoteldetails
GROUP BY hotel_rent
HAVING hotel_rent = 200
```

OUTPUT:

MAX() QUERY:-

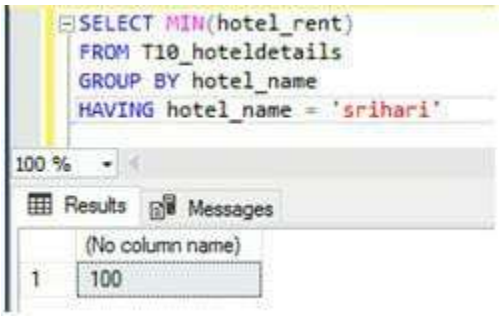
```
SELECT MAX(hotel_rent)
FROM T10_hoteldetails
GROUP BY hotel_name
HAVING hotel_name = 'chakri'
```

OUTPUT:

MIN() QUERY:-

```
SELECT MIN(hotel_rent)
FROM T10_hoteldetails
GROUP BY hotel_name
HAVING hotel_name = 'srihari'
```

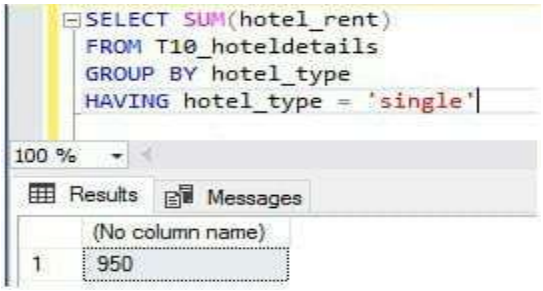
OUTPUT:



SUM() QUERY:-

```
SELECT SUM(hotel_rent)
FROM T10_hoteldetails
GROUP BY hotel_type
HAVING hotel_type = 'single'
```

OUTPUT:

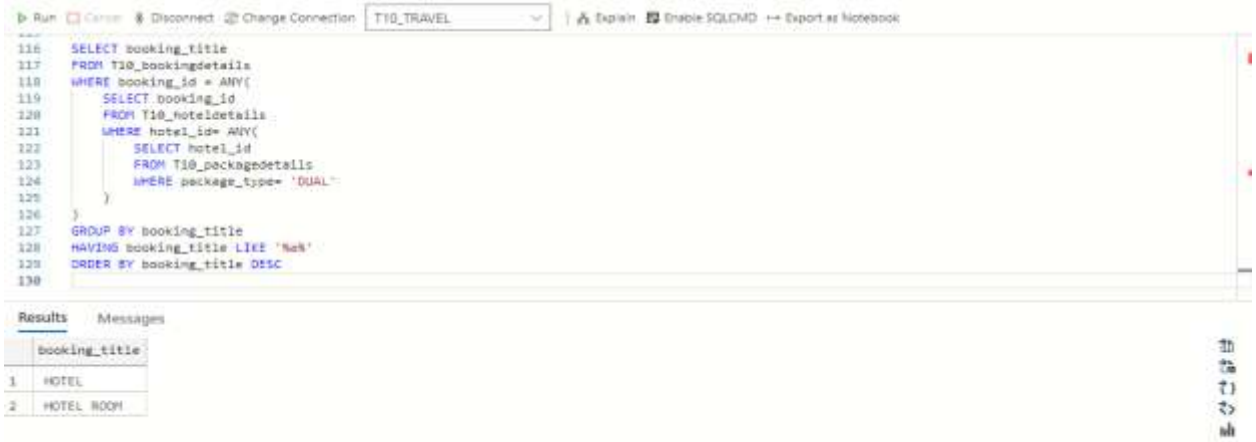


5. Write at least 3 nested queries using order by, group by and having clause.

QUERY:-

```
SELECT booking_title
FROM T10_bookingdetails
WHERE booking_id = ANY(
    SELECT booking_id
    FROM T10_hoteldetails
    WHERE hotel_id= ANY(
        SELECT hotel_id
        FROM T10_packagedetails
        WHERE package_type= 'DUAL'
    )
)
GROUP BY booking_title
HAVING booking_title LIKE '%a%'
ORDER BY booking_title DESC
```

OUTPUT:-

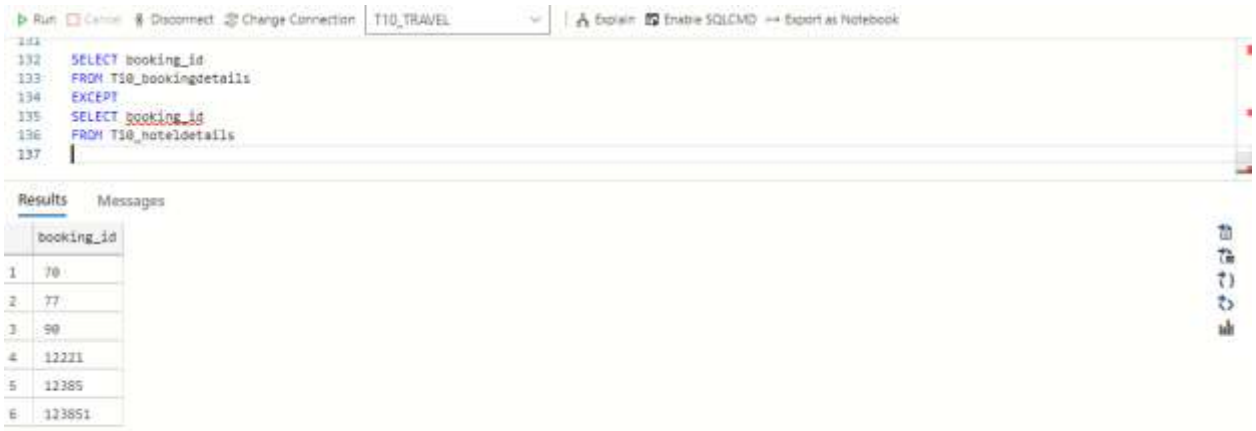


6. Illustrate the Usage of Except, Exists, Not Exists, Union, Intersection

EXCEPT QUERY:-

```
SELECT booking_id
FROM T10_bookingdetails
EXCEPT
SELECT booking_id
FROM T10_hoteldetails
```

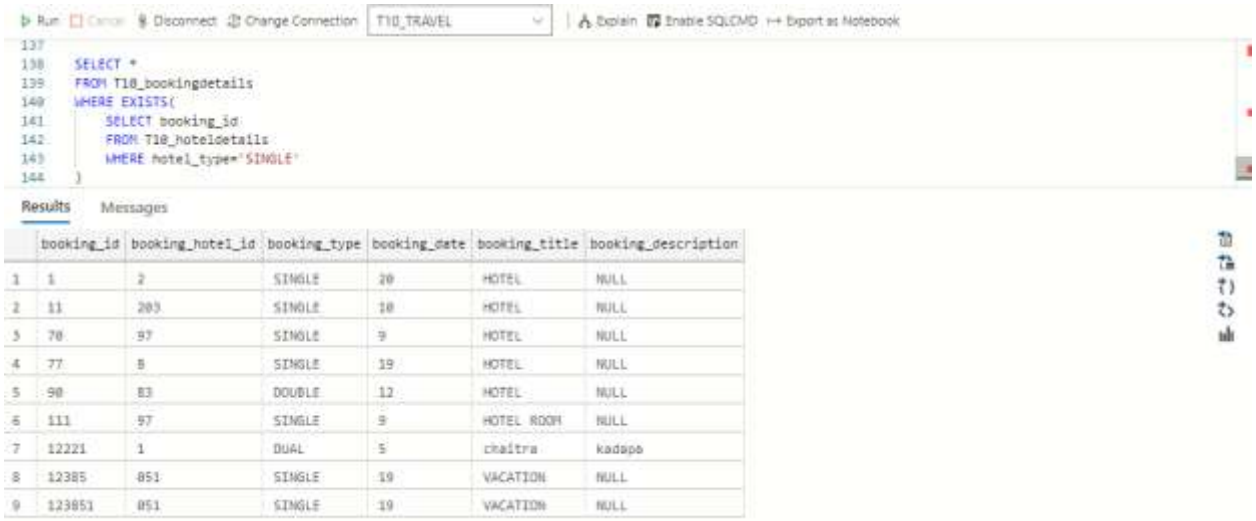
OUTPUT:-



EXISTS QUERY:-

```
SELECT *
FROM T10_bookingdetails
WHERE EXISTS(
    SELECT booking_id
    FROM T10_hoteldetails
    WHERE hotel_type='SINGLE'
)
```

OUTPUT:-



```
SELECT *
FROM T10_bookingdetails
WHERE EXISTS(
    SELECT booking_id
    FROM T10_hoteldetails
    WHERE hotel_type='SINGLE'
)
```

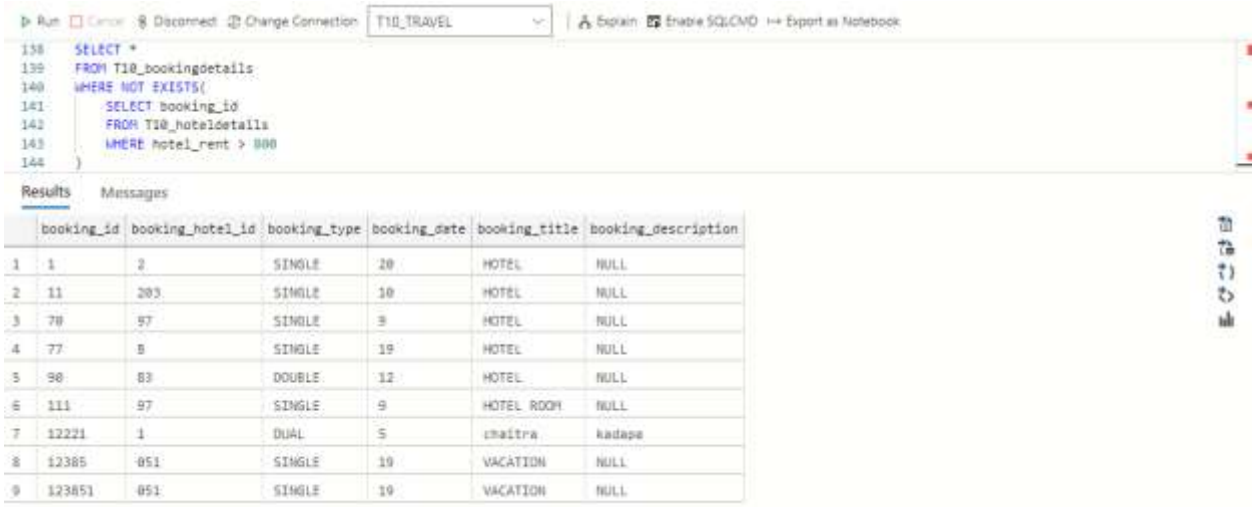
Results | Messages

	booking_id	booking_hotel_id	booking_type	booking_date	booking_title	booking_description
1	1	2	SINGLE	20	HOTEL	NULL
2	11	203	SINGLE	10	HOTEL	NULL
3	70	97	SINGLE	9	HOTEL	NULL
4	77	8	SINGLE	19	HOTEL	NULL
5	90	83	DOUBLE	12	HOTEL	NULL
6	111	97	SINGLE	9	HOTEL ROOM	NULL
7	12221	1	DUAL	5	chaitra	kadapa
8	12385	851	SINGLE	19	VACATION	NULL
9	123851	851	SINGLE	19	VACATION	NULL

NOT EXISTS QUERY:-

```
SELECT *
FROM T10_bookingdetails
WHERE NOT EXISTS(
    SELECT booking_id
    FROM T10_hoteldetails
    WHERE hotel_rent > 800
)
```

OUTPUT:



```
SELECT *
FROM T10_bookingdetails
WHERE NOT EXISTS(
    SELECT booking_id
    FROM T10_hoteldetails
    WHERE hotel_rent > 800
)
```

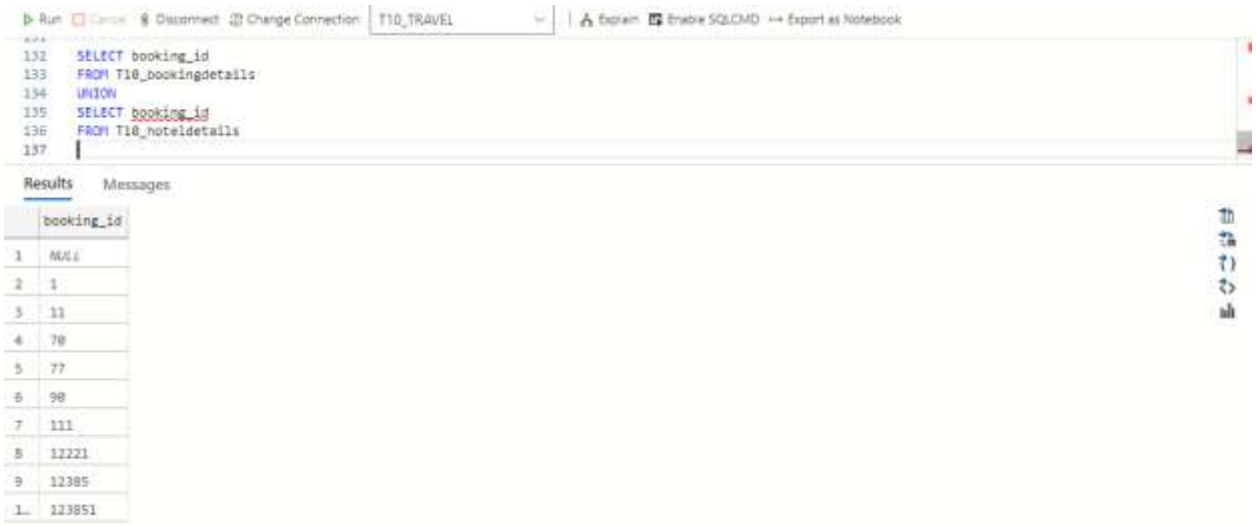
Results | Messages

	booking_id	booking_hotel_id	booking_type	booking_date	booking_title	booking_description
1	1	2	SINGLE	20	HOTEL	NULL
2	11	203	SINGLE	10	HOTEL	NULL
3	70	97	SINGLE	9	HOTEL	NULL
4	77	8	SINGLE	19	HOTEL	NULL
5	90	83	DOUBLE	12	HOTEL	NULL
6	111	97	SINGLE	9	HOTEL ROOM	NULL
7	12221	1	DUAL	5	chaitra	kadapa
8	12385	851	SINGLE	19	VACATION	NULL
9	123851	851	SINGLE	19	VACATION	NULL

UNION QUERY:-

```
SELECT booking_id
FROM T10_bookingdetails
UNION
SELECT booking_id
FROM T10_hoteldetails
```

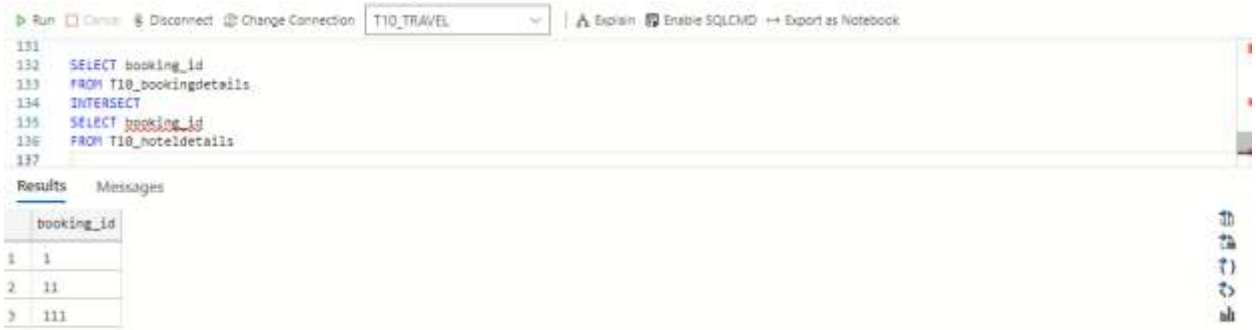
OUTPUT:



INTERSECTION QUERY:-

```
SELECT booking_id
FROM T10_bookingdetails
INTERSECT
SELECT booking_id
FROM T10_hoteldetails
```

OUTPUT:

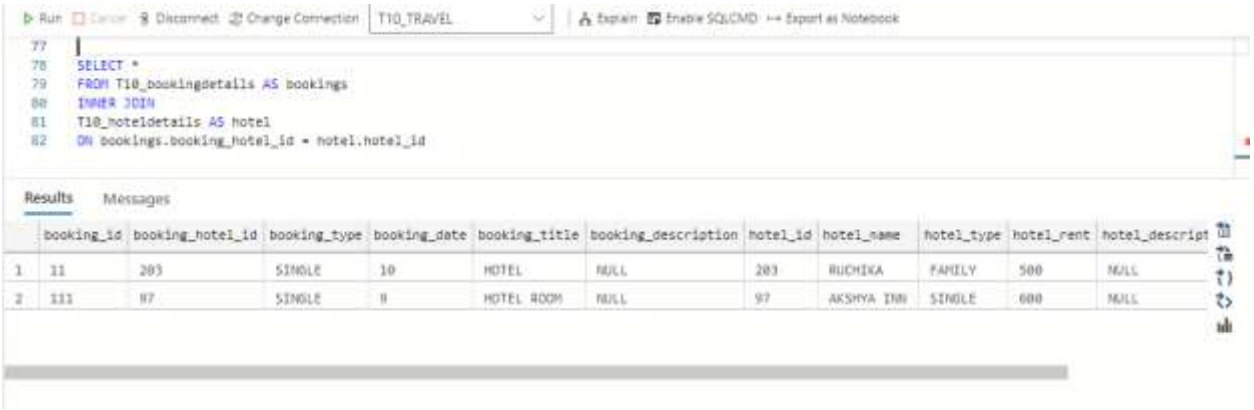


7. INNER JOIN, LEFT OUTER JOIN, RIGHT OUTER JOIN- 3 queries for each instance

INNER JOIN QUERY 1:-

```
SELECT *
FROM T10_bookingdetails AS bookings
INNER JOIN
T10_hoteldetails AS hotel
ON bookings.booking_hotel_id = hotel.hotel_id
```

OUTPUT:-



```
SELECT *
FROM T10_bookingdetails AS bookings
INNER JOIN
T10_hoteldetails AS hotel
ON bookings.booking_hotel_id = hotel.hotel_id
```

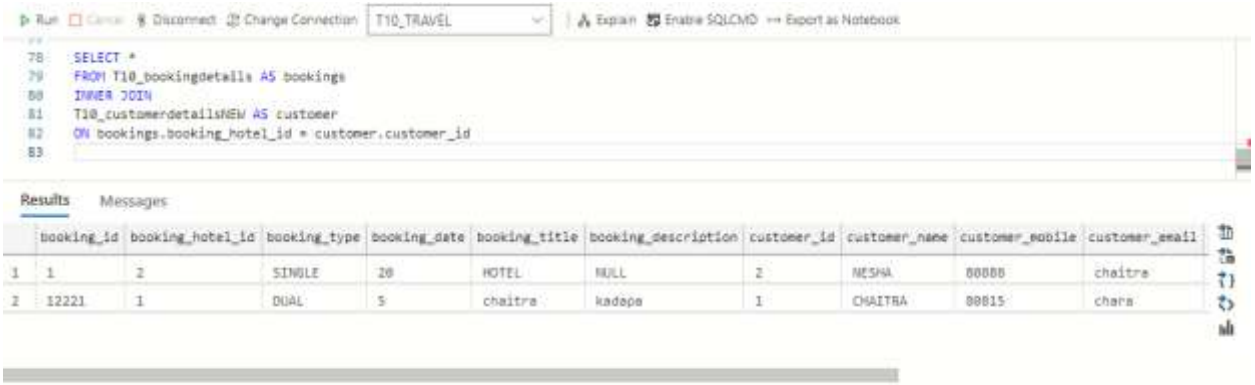
Results Messages

	booking_id	booking_hotel_id	booking_type	booking_date	booking_title	booking_description	hotel_id	hotel_name	hotel_type	hotel_rent	hotel_descript
1	11	203	SINGLE	10	HOTEL	NULL	203	RUCHIKA	FAMILY	500	NULL
2	111	97	SINGLE	9	HOTEL ROOM	NULL	97	AKSHYA INN	SINGLE	600	NULL

QUERY 2:-

```
SELECT *
FROM T10_bookingdetails AS bookings
INNER JOIN
T10_customerdetailsNEW AS customer
ON bookings.booking_hotel_id = customer.customer_id
```

OUTPUT:-



```
SELECT *
FROM T10_bookingdetails AS bookings
INNER JOIN
T10_customerdetailsNEW AS customer
ON bookings.booking_hotel_id = customer.customer_id
```

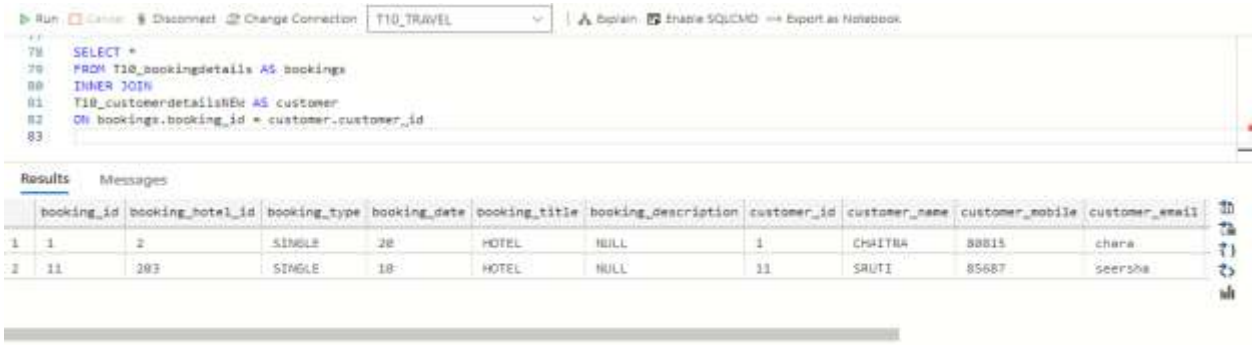
Results Messages

	booking_id	booking_hotel_id	booking_type	booking_date	booking_title	booking_description	customer_id	customer_name	customer_mobile	customer_email
1	1	2	SINGLE	20	HOTEL	NULL	2	NESHA	88888	chaitra
2	12221	1	DUAL	5	chaitra	kadapa	1	CHAITRA	88815	chara

QUERY 3:-

```
SELECT *
FROM T10_bookingdetails AS bookings
INNER JOIN
T10_customerdetailsNEW AS customer
ON bookings.booking_id = customer.customer_id
```

OUTPUT:-



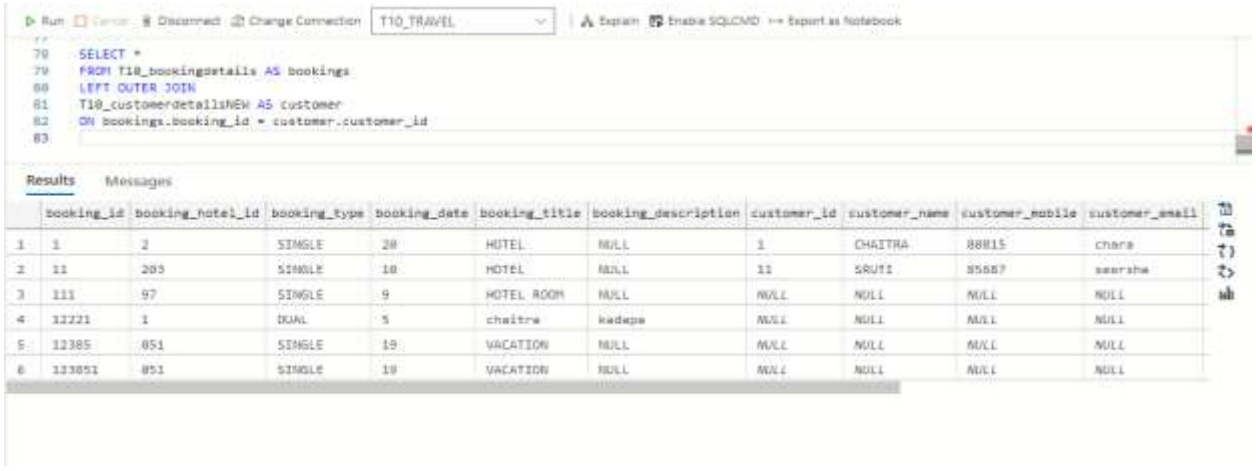
	booking_id	booking_hotel_id	booking_type	booking_date	booking_title	booking_description	customer_id	customer_name	customer_mobile	customer_email
1	1	2	SINGLE	20	HOTEL	NULL	1	CHAITRA	88815	chara
2	11	203	SINGLE	10	HOTEL	NULL	11	SRUTI	85687	seersha

LEFT OUTER JOIN

QUERY 1:-

```
SELECT *
FROM T10_bookingdetails AS bookings
LEFT OUTER JOIN
T10_customerdetailsNEW AS customer
ON bookings.booking_id = customer.customer_id
```

OUTPUT:-

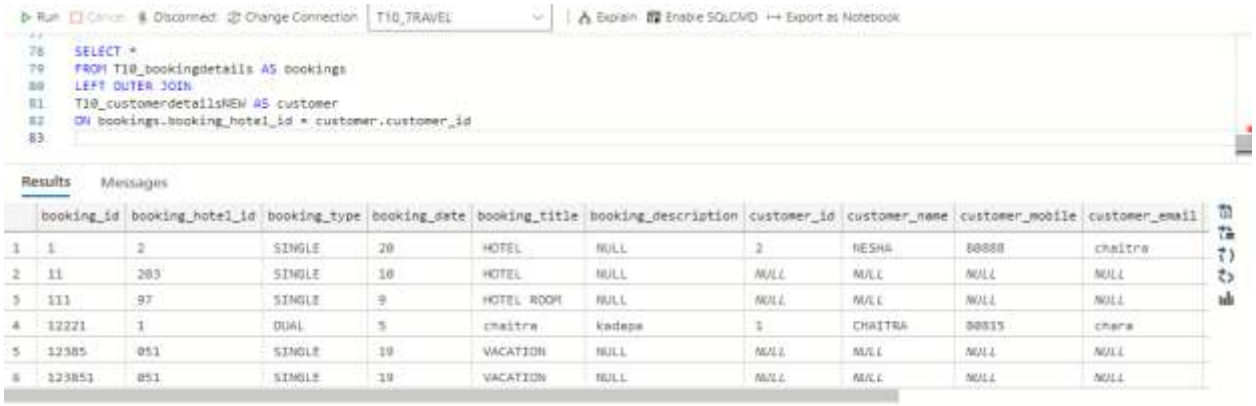


	booking_id	booking_hotel_id	booking_type	booking_date	booking_title	booking_description	customer_id	customer_name	customer_mobile	customer_email
1	1	2	SINGLE	20	HOTEL	NULL	1	CHAITRA	88815	chara
2	11	203	SINGLE	10	HOTEL	NULL	11	SRUTI	85687	seersha
3	111	97	SINGLE	9	HOTEL ROOM	NULL	NULL	NULL	NULL	NULL
4	12221	1	DUAL	5	chaitra	kadapa	NULL	NULL	NULL	NULL
5	12385	851	SINGLE	19	VACATION	NULL	NULL	NULL	NULL	NULL
6	123851	851	SINGLE	19	VACATION	NULL	NULL	NULL	NULL	NULL

QUERY 2:-

```
SELECT *
FROM T10_bookingdetails AS bookings
LEFT OUTER JOIN
T10_customerdetailsNEW AS customer
ON bookings.booking_hotel_id = customer.customer_id
```

OUTPUT:-



```
SELECT *
FROM T10_bookingdetails AS bookings
LEFT OUTER JOIN
T10_customerdetailsNEW AS customer
ON bookings.booking_hotel_id = customer.customer_id
```

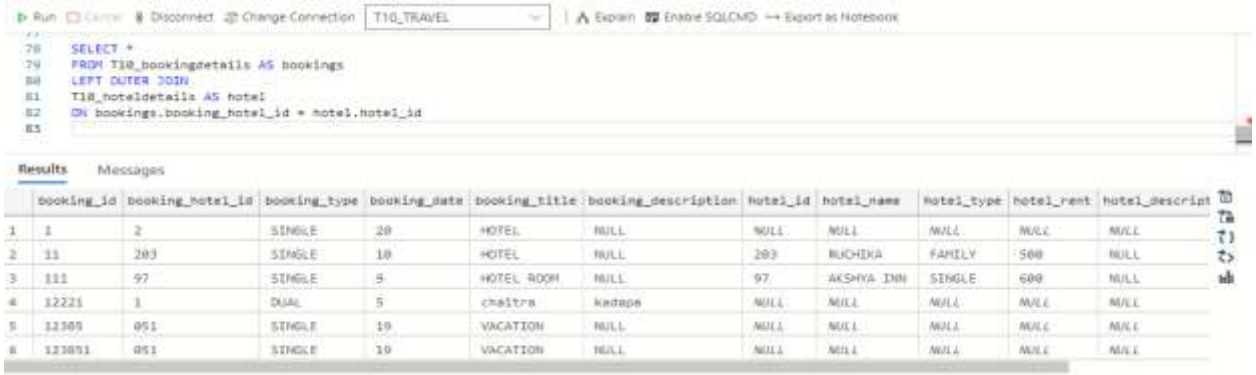
Results | Messages

	booking_id	booking_hotel_id	booking_type	booking_date	booking_title	booking_description	customer_id	customer_name	customer_mobile	customer_email
1	1	2	SINGLE	20	HOTEL	NULL	2	NESHA	88888	chaitra
2	11	203	SINGLE	10	HOTEL	NULL	NULL	NULL	NULL	NULL
3	111	97	SINGLE	9	HOTEL ROOM	NULL	NULL	NULL	NULL	NULL
4	12221	1	DUAL	5	chaitra	kadapa	1	CHAITRA	88815	chara
5	12385	051	SINGLE	19	VACATION	NULL	NULL	NULL	NULL	NULL
6	123851	051	SINGLE	19	VACATION	NULL	NULL	NULL	NULL	NULL

QUERY 3:-

```
SELECT *
FROM T10_bookingdetails AS bookings
LEFT OUTER JOIN
T10_hoteldetails AS hotel
ON bookings.booking_hotel_id = hotel.hotel_id
```

OUTPUT:-



```
SELECT *
FROM T10_bookingdetails AS bookings
LEFT OUTER JOIN
T10_hoteldetails AS hotel
ON bookings.booking_hotel_id = hotel.hotel_id
```

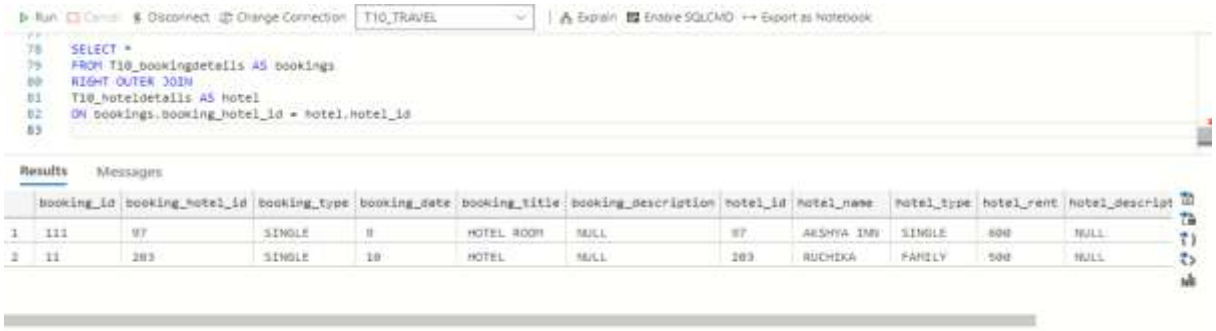
Results | Messages

	booking_id	booking_hotel_id	booking_type	booking_date	booking_title	booking_description	hotel_id	hotel_name	hotel_type	hotel_rent	hotel_descript
1	1	2	SINGLE	20	HOTEL	NULL	NULL	NULL	NULL	NULL	NULL
2	11	203	SINGLE	10	HOTEL	NULL	203	RUCHIKA	FAMILY	500	NULL
3	111	97	SINGLE	9	HOTEL ROOM	NULL	97	AKSHYA INN	SINGLE	600	NULL
4	12221	1	DUAL	5	chaitra	kadapa	NULL	NULL	NULL	NULL	NULL
5	12385	051	SINGLE	19	VACATION	NULL	NULL	NULL	NULL	NULL	NULL
6	123851	051	SINGLE	19	VACATION	NULL	NULL	NULL	NULL	NULL	NULL

RIGHT OUTER JOIN QUERY 1:-

```
SELECT *
FROM T10_bookingdetails AS bookings
RIGHT OUTER JOIN
T10_hoteldetails AS hotel
ON bookings.booking_hotel_id = hotel.hotel_id
```

OUTPUT:-

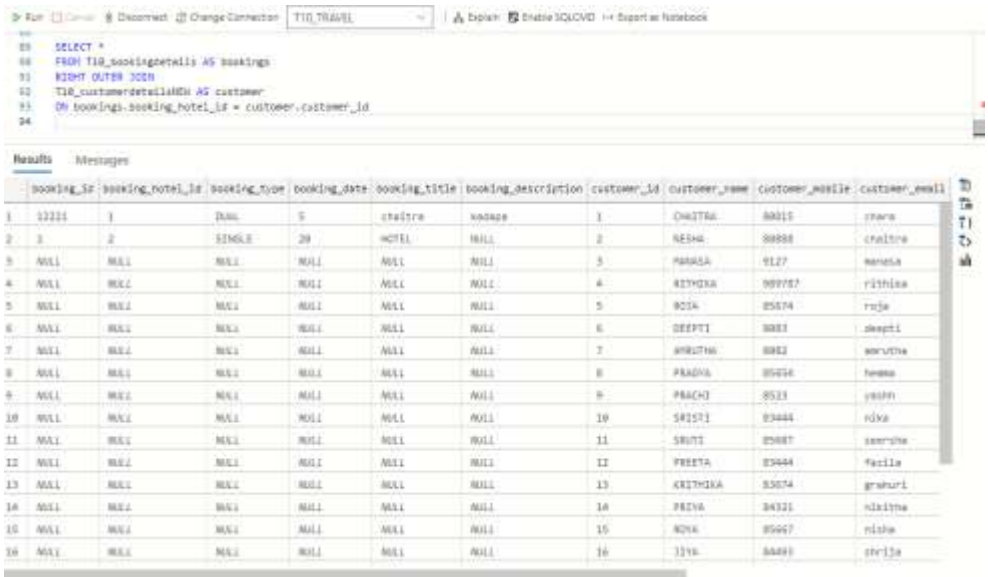


	booking_id	booking_hotel_id	booking_type	booking_date	booking_title	booking_description	hotel_id	hotel_name	hotel_type	hotel_rent	hotel_descript
1	111	97	SINGLE	8	HOTEL ROOM	NULL	97	AKSHYA INN	SINGLE	600	NULL
2	11	203	SINGLE	10	HOTEL	NULL	203	RUCHIKA	FAMILY	500	NULL

QUERY 2:-

```
SELECT *
FROM T10_bookingdetails AS bookings
RIGHT OUTER JOIN
T10_customerdetailsNEW AS customer
ON bookings.booking_hotel_id = customer.customer_id
```

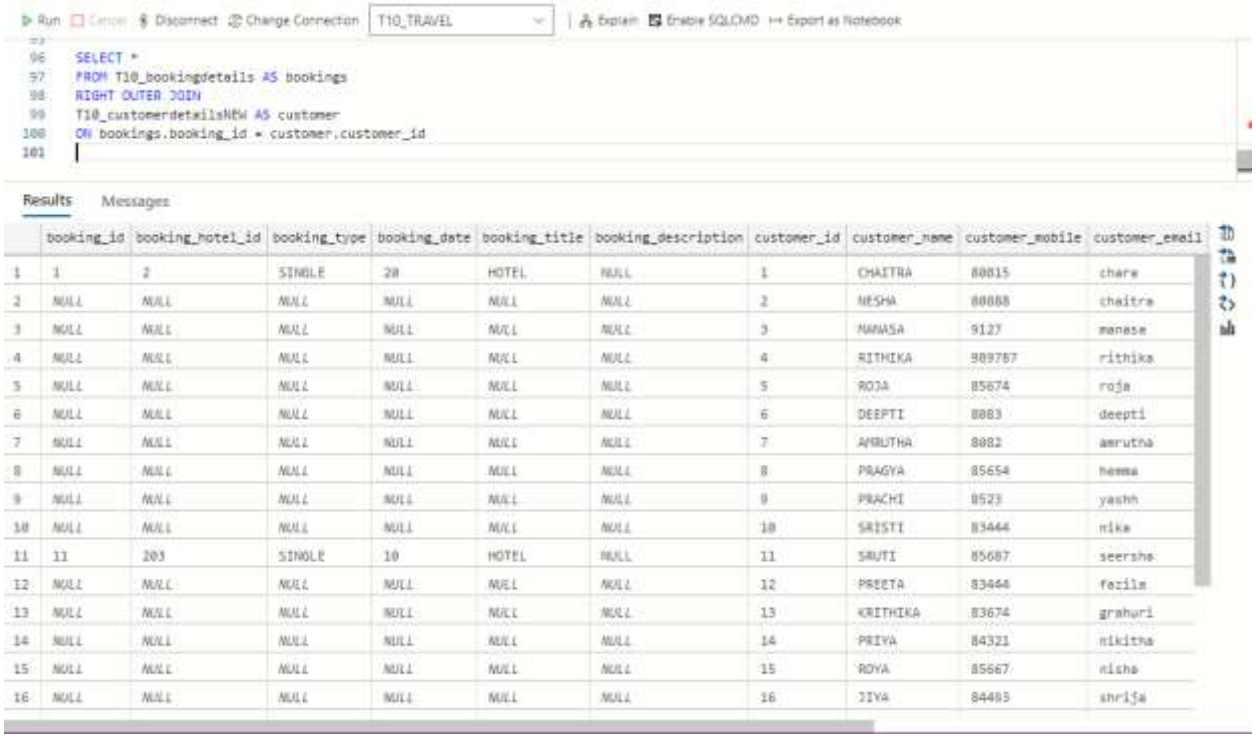
OUTPUT:



QUERY 3:-

```
SELECT *
FROM T10_bookingdetails AS bookings
RIGHT OUTER JOIN
T10_customerdetailsNEW AS customer
ON bookings.booking_id = customer.customer_id
```

OUTPUT:



```
SELECT *
FROM T10_bookingdetails AS bookings
RIGHT OUTER JOIN
T10_customerdetailsNEW AS customer
ON bookings.booking_id = customer.customer_id
```

Results | Messages

	booking_id	booking_hotel_id	booking_type	booking_date	booking_title	booking_description	customer_id	customer_name	customer_mobile	customer_email
1	1	2	SINGLE	20	HOTEL	NULL	1	CHAITRA	88815	chara
2	NULL	NULL	NULL	NULL	NULL	NULL	2	NESHA	88888	chaitra
3	NULL	NULL	NULL	NULL	NULL	NULL	3	MANASA	9127	manasa
4	NULL	NULL	NULL	NULL	NULL	NULL	4	RITHIKA	989787	rithika
5	NULL	NULL	NULL	NULL	NULL	NULL	5	ROJA	85674	roja
6	NULL	NULL	NULL	NULL	NULL	NULL	6	DEEPTI	8883	deepti
7	NULL	NULL	NULL	NULL	NULL	NULL	7	AMRUTHA	8882	amrutha
8	NULL	NULL	NULL	NULL	NULL	NULL	8	PRAGYA	85654	hemma
9	NULL	NULL	NULL	NULL	NULL	NULL	9	PRACHI	8523	yashh
10	NULL	NULL	NULL	NULL	NULL	NULL	10	SRISTI	83444	nika
11	11	203	SINGLE	10	HOTEL	NULL	11	SRUTI	85687	seersha
12	NULL	NULL	NULL	NULL	NULL	NULL	12	PREETA	83444	fazila
13	NULL	NULL	NULL	NULL	NULL	NULL	13	KRITHIKA	83674	grahuri
14	NULL	NULL	NULL	NULL	NULL	NULL	14	PRIYA	84321	nikitha
15	NULL	NULL	NULL	NULL	NULL	NULL	15	ROYA	85667	nisha
16	NULL	NULL	NULL	NULL	NULL	NULL	16	JIYA	84483	shrija

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

QUERY:-

```
SELECT customer_name, MIN(customer_id) AS customer_id, AVG(customer_mobile) AS custom
er_mobile
FROM T10_customerdetailsNEW AS customers
JOIN
T10_bookingdetails AS bookings
ON customers.customer_id = bookings.booking_hotel_id
GROUP BY customer_name
HAVING customer_name LIKE '%e%'
ORDER BY customer_name DESC
```

OUTPUT:

```
68
69  SELECT customer_name, MIN(customer_id) AS customer_id, AVG(customer_mobile) AS customer_mobile
70  FROM T10_customerdetailsNEW AS customers
71  JOIN
72  T10_bookingdetails AS bookings
73  ON customers.customer_id = bookings.booking_hotel_id
74  GROUP BY customer_name
75  HAVING customer_name LIKE '%e%'
76  ORDER BY customer_name DESC
```

Results Messages

	customer_name	customer_id	customer_mobile
1	NESHA	2	88888