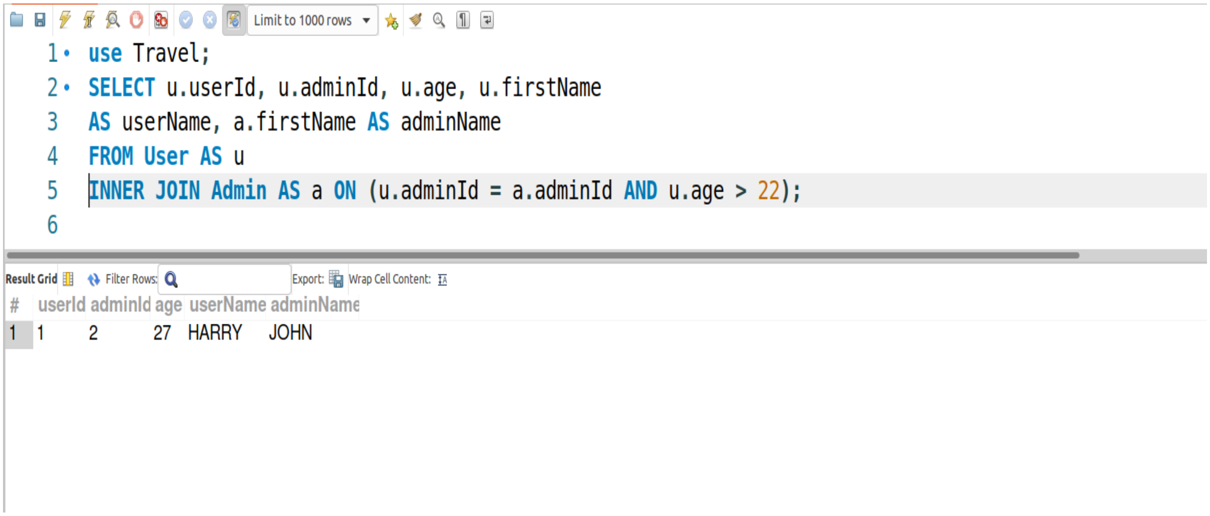
Assignment – 5

1. INNER JOIN

a.

Query:

SELECT u.userId, u.adminId, u.age, u.firstName
AS userName, a.firstName AS adminName
FROM User AS u
INNER JOIN Admin AS a ON (u.adminId = a.adminId AND u.age > 22);



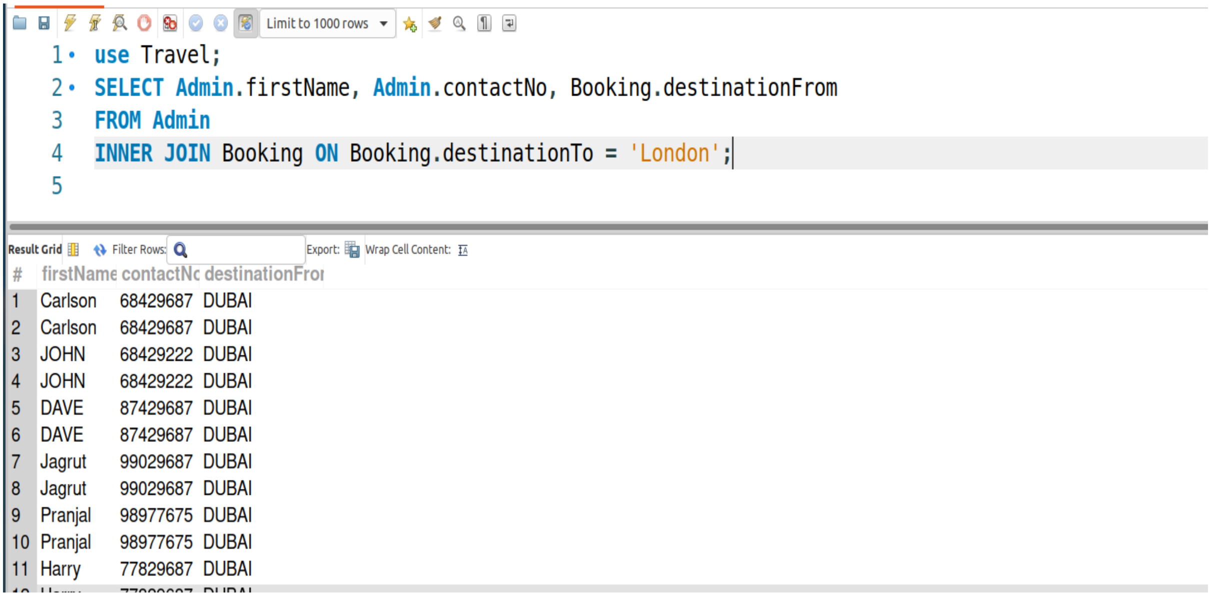
```
use Travel;
SELECT u.userId, u.adminId, u.age, u.firstName
AS userName, a.firstName AS adminName
FROM User AS u
INNER JOIN Admin AS a ON (u.adminId = a.adminId AND u.age > 22);
```

#	userId	adminId	age	userName	adminName
1	1	2	27	HARRY	JOHN

b.

Query:

SELECT Admin.firstName, Admin.contactNo, Booking.destinationFrom
FROM Admin
INNER JOIN Booking ON Booking.destinationTo = 'London';



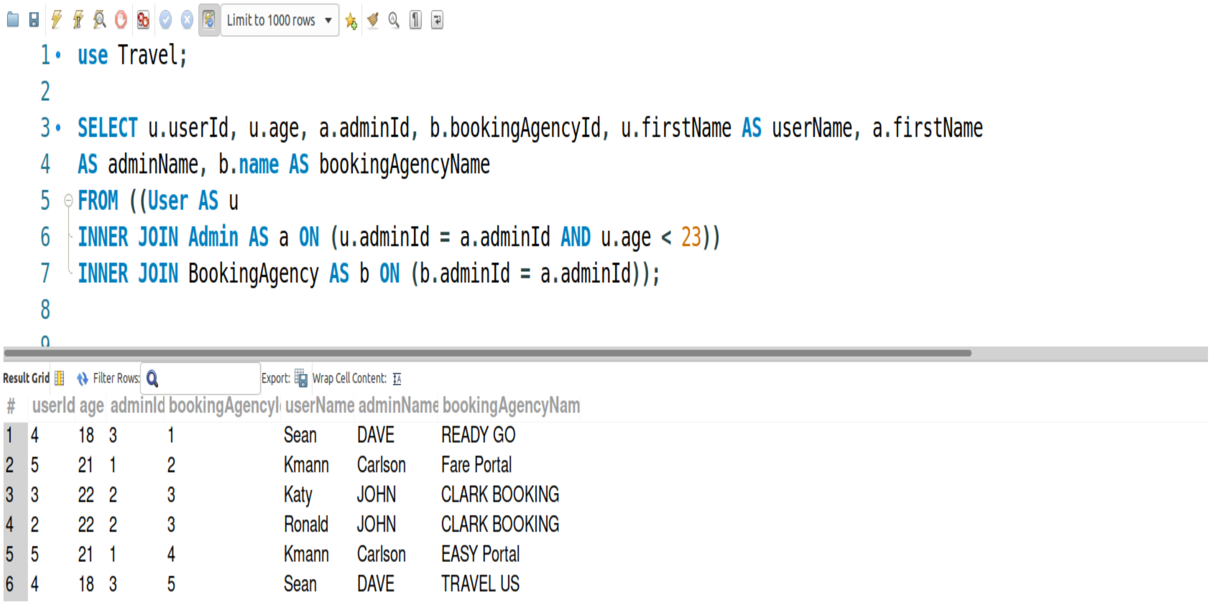
```sql
use Travel;
SELECT Admin.firstName, Admin.contactNo, Booking.destinationFrom
FROM Admin
INNER JOIN Booking ON Booking.destinationTo = 'London';
```

#	firstName	contactNc	destinationFro
1	Carlson	68429687	DUBAI
2	Carlson	68429687	DUBAI
3	JOHN	68429222	DUBAI
4	JOHN	68429222	DUBAI
5	DAVE	87429687	DUBAI
6	DAVE	87429687	DUBAI
7	Jagrut	99029687	DUBAI
8	Jagrut	99029687	DUBAI
9	Pranjal	98977675	DUBAI
10	Pranjal	98977675	DUBAI
11	Harry	77829687	DUBAI
12	Harry	77829687	DUBAI

c.

Query:

SELECT u.userId, u.age, a.adminId, b.bookingAgencyId, u.firstName
AS userName, a.firstName
AS adminName, b.name AS bookingAgencyName
FROM ((User AS u
INNER JOIN Admin AS a ON (u.adminId = a.adminId AND u.age < 23))
INNER JOIN BookingAgency AS b ON (b.adminId = a.adminId));



```
use Travel;

SELECT u.userId, u.age, a.adminId, b.bookingAgencyId, u.firstName AS userName, a.firstName
AS adminName, b.name AS bookingAgencyName
FROM ((User AS u
INNER JOIN Admin AS a ON (u.adminId = a.adminId AND u.age < 23))
INNER JOIN BookingAgency AS b ON (b.adminId = a.adminId));
```

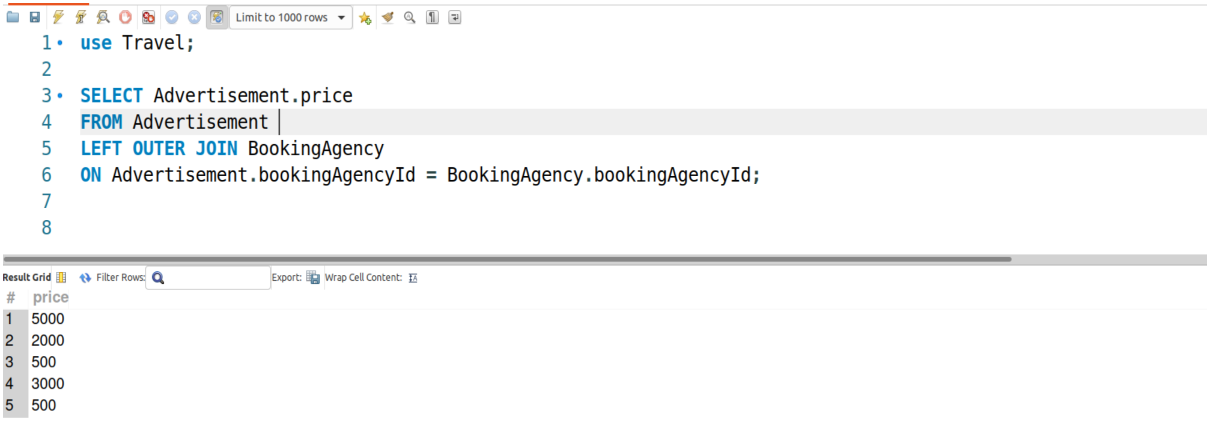
#	userId	age	adminId	bookingAgencyI	userName	adminName	bookingAgencyNam
1	4	18	3	1	Sean	DAVE	READY GO
2	5	21	1	2	Kmann	Carlson	Fare Portal
3	3	22	2	3	Katy	JOHN	CLARK BOOKING
4	2	22	2	3	Ronald	JOHN	CLARK BOOKING
5	5	21	1	4	Kmann	Carlson	EASY Portal
6	4	18	3	5	Sean	DAVE	TRAVEL US

2. LEFT OUTER JOIN

a.

Query:

SELECT Advertisement.price
FROM Advertisement LEFT OUTER JOIN BookingAgency
ON Advertisement.bookingAgencyId =
BookingAgency.bookingAgencyId;



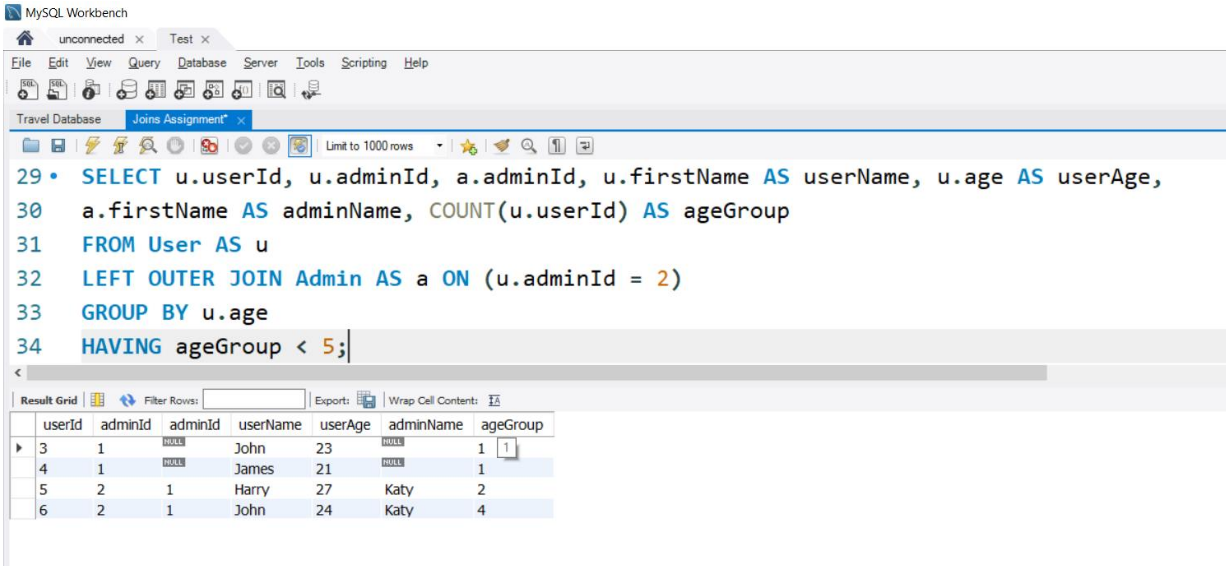
```
use Travel;

SELECT Advertisement.price
FROM Advertisement
LEFT OUTER JOIN BookingAgency
ON Advertisement.bookingAgencyId = BookingAgency.bookingAgencyId;
```

```
#  price
1  5000
2  2000
3  500
4  3000
5  500
```

b.

Query:

```
SELECT u.userId, u.adminId, a.adminId, u.firstName AS userName,
u.age AS userAge,
a.firstName AS adminName, COUNT(u.userId) AS ageGroup
FROM User AS u
LEFT OUTER JOIN Admin AS a ON (u.adminId = 2)
GROUP BY u.age
HAVING ageGroup < 5;
```



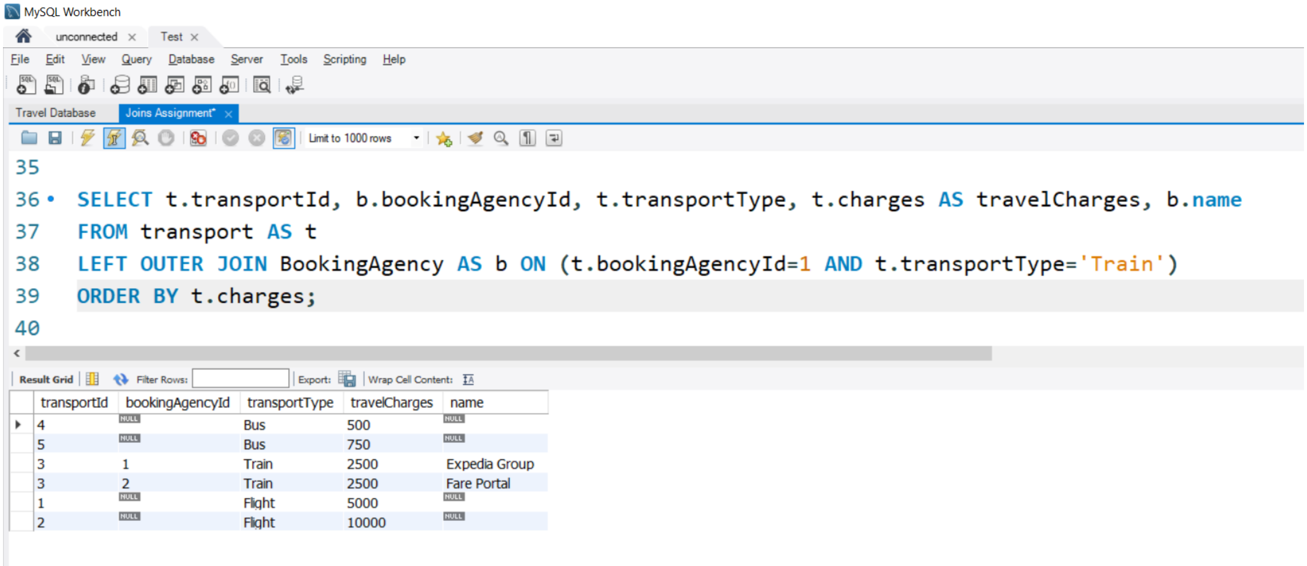
```
SELECT u.userId, u.adminId, a.adminId, u.firstName AS userName, u.age AS userAge,
a.firstName AS adminName, COUNT(u.userId) AS ageGroup
FROM User AS u
LEFT OUTER JOIN Admin AS a ON (u.adminId = 2)
GROUP BY u.age
HAVING ageGroup < 5;
```

userId	adminId	adminId	userName	userAge	adminName	ageGroup
3	1	NULL	John	23	NULL	1
4	1	NULL	James	21	NULL	1
5	2	1	Harry	27	Katy	2
6	2	1	John	24	Katy	4

c.

Query:

SELECT t.transportId, b.bookingAgencyId, t.transportType, t.charges AS travelCharges, b.name
FROM transport AS t
LEFT OUTER JOIN BookingAgency AS b ON (t.bookingAgencyId=1 AND t.transportType='Train')
ORDER BY t.charges;



```
SELECT t.transportId, b.bookingAgencyId, t.transportType, t.charges AS travelCharges, b.name
FROM transport AS t
LEFT OUTER JOIN BookingAgency AS b ON (t.bookingAgencyId=1 AND t.transportType='Train')
ORDER BY t.charges;
```

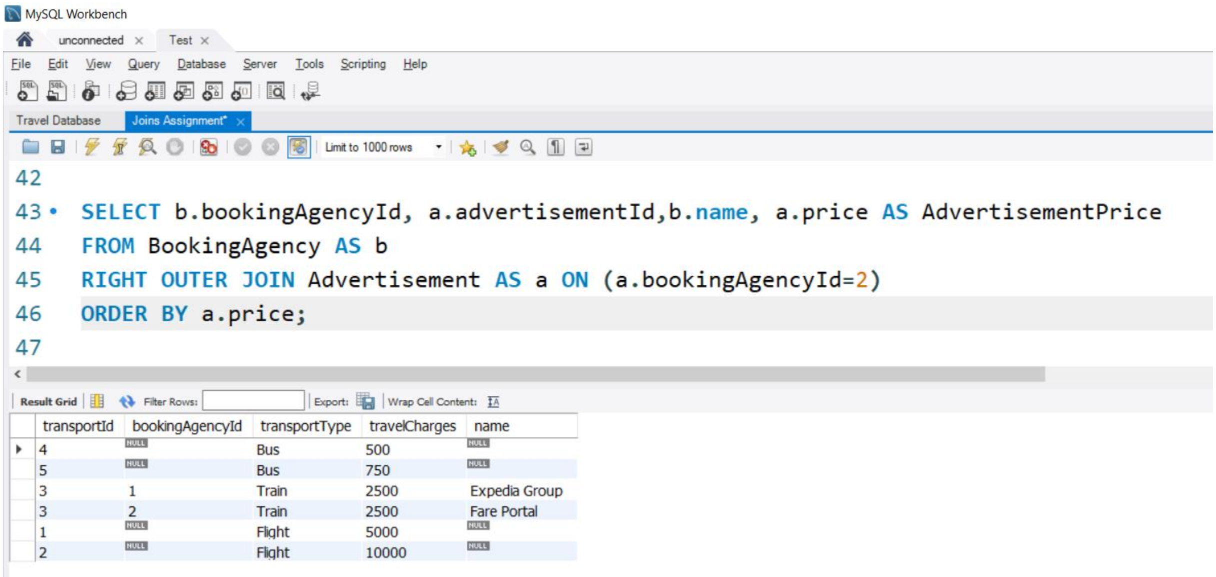
transportId	bookingAgencyId	transportType	travelCharges	name
4	NULL	Bus	500	NULL
5	NULL	Bus	750	NULL
3	1	Train	2500	Expedia Group
3	2	Train	2500	Fare Portal
1	NULL	Flight	5000	NULL
2	NULL	Flight	10000	NULL

3. RIGHT OUTER JOIN

a.

Query:

SELECT b.bookingAgencyId, a.advertisementId,b.name, a.price AS AdvertisementPrice
FROM BookingAgency AS b
RIGHT OUTER JOIN Advertisement AS a ON (a.bookingAgencyId=2)
ORDER BY a.price;



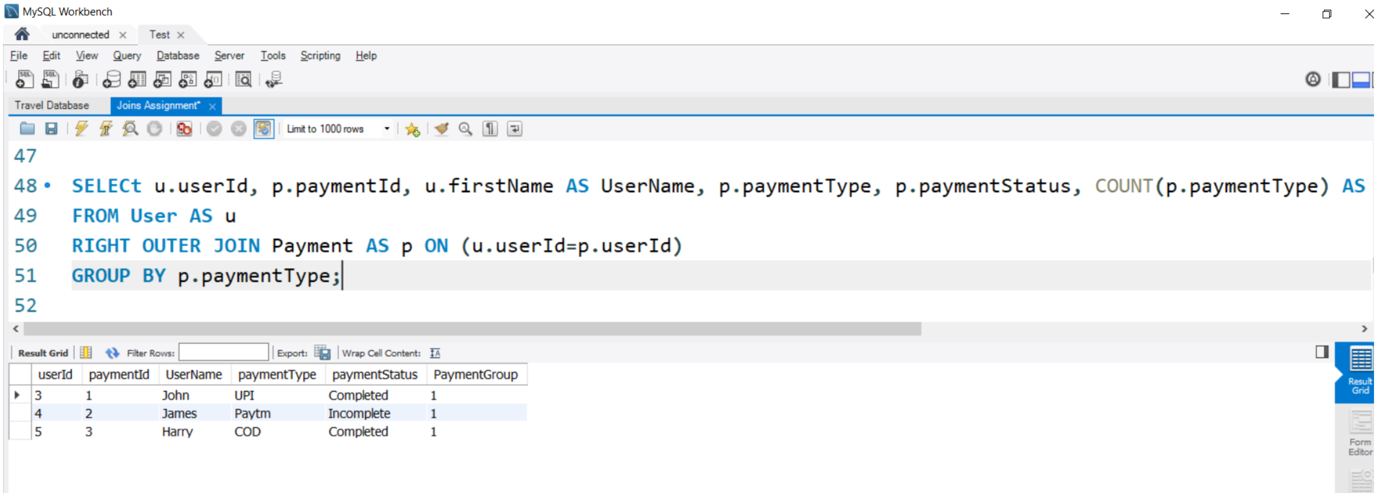
```
SELECT b.bookingAgencyId, a.advertisementId,b.name, a.price AS AdvertisementPrice
FROM BookingAgency AS b
RIGHT OUTER JOIN Advertisement AS a ON (a.bookingAgencyId=2)
ORDER BY a.price;
```

transportId	bookingAgencyId	transportType	travelCharges	name
4	NULL	Bus	500	NULL
5	NULL	Bus	750	NULL
3	1	Train	2500	Expedia Group
3	2	Train	2500	Fare Portal
1	NULL	Flight	5000	NULL
2	NULL	Flight	10000	NULL

b.

Query:

SELECt u.userId, p.paymentId, u.firstName AS UserName, p.paymentType, p.paymentStatus, COUNT(p.paymentType) AS PaymentGroup
FROM User AS u
RIGHT OUTER JOIN Payment AS p ON (u.userId=p.userId)
GROUP BY p.paymentType;



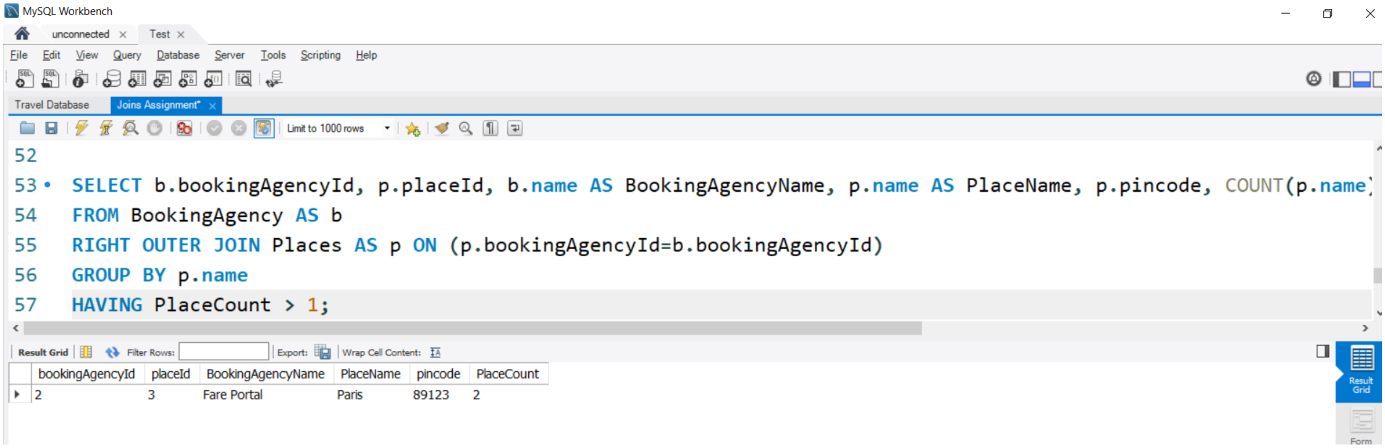
```
SELECt u.userId, p.paymentId, u.firstName AS UserName, p.paymentType, p.paymentStatus, COUNT(p.paymentType) AS
FROM User AS u
RIGHT OUTER JOIN Payment AS p ON (u.userId=p.userId)
GROUP BY p.paymentType;
```

userId	paymentId	UserName	paymentType	paymentStatus	PaymentGroup
3	1	John	UPI	Completed	1
4	2	James	Paytm	Incomplete	1
5	3	Harry	COD	Completed	1

c.

Query:

SELECT b.bookingAgencyId, p.placeId, b.name AS BookingAgencyName, p.name AS PlaceName, p.pincode, COUNT(p.name) AS PlaceCount
FROM BookingAgency AS b
RIGHT OUTER JOIN Places AS p ON (p.bookingAgencyId=b.bookingAgencyId)
GROUP BY p.name
HAVING PlaceCount > 1;



```

SELECT b.bookingAgencyId, p.placeId, b.name AS BookingAgencyName, p.name AS PlaceName, p.pincode, COUNT(p.name
FROM BookingAgency AS b
RIGHT OUTER JOIN Places AS p ON (p.bookingAgencyId=b.bookingAgencyId)
GROUP BY p.name
HAVING PlaceCount > 1;
```

bookingAgencyId	placeId	BookingAgencyName	PlaceName	pincode	PlaceCount
2	3	Fare Portal	Paris	89123	2