CSCE – 5350 – Fundamentals of Database System

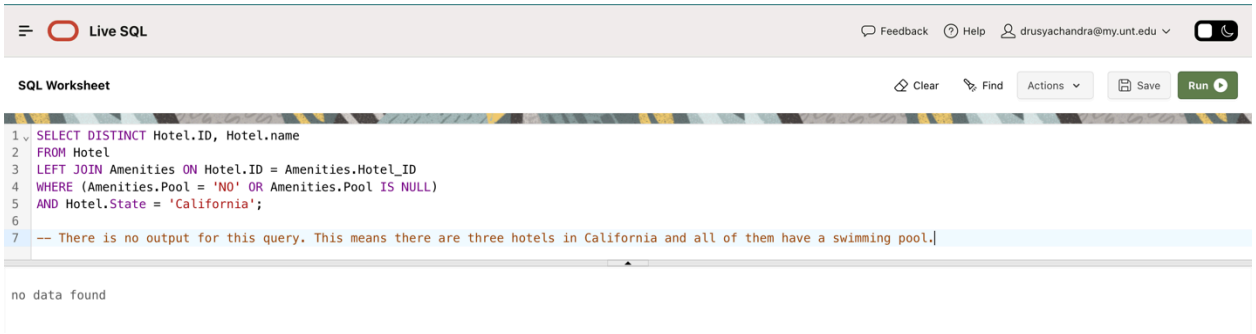
Data Manipulation (SQL queries, update and delete statements)

Group – 18

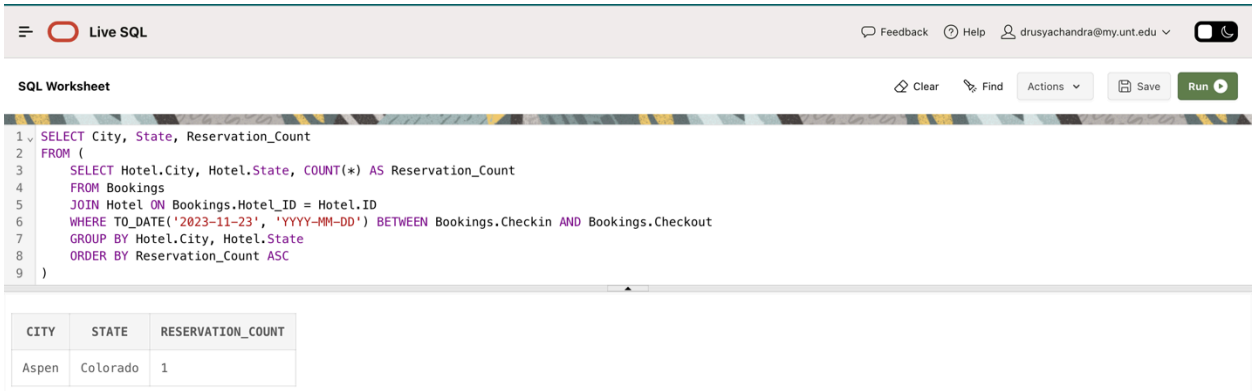
Queries:

1. List the total number of hotels without swimming pool facilities in California.

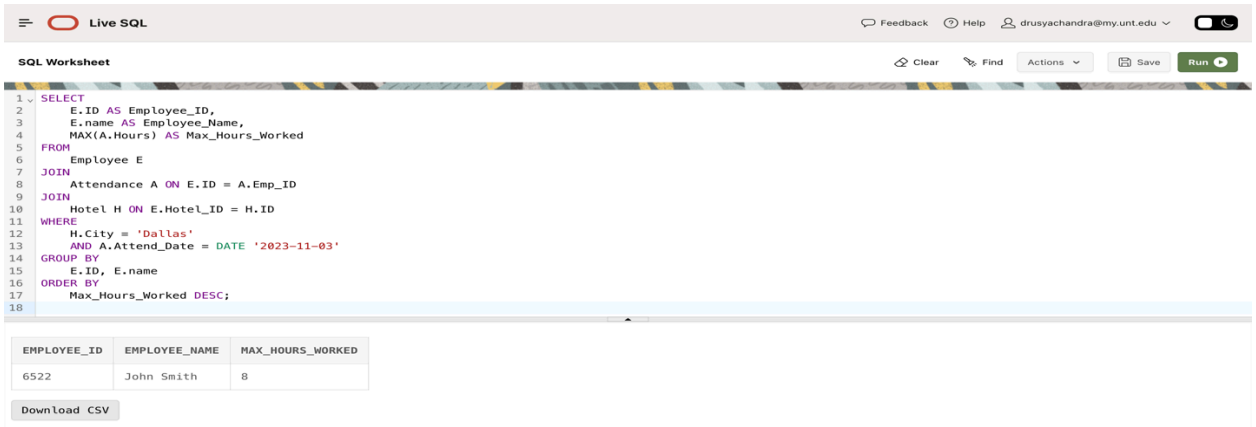
Since all three hotels located in California have swimming pool, we got the output as no data found according to our Data Base.



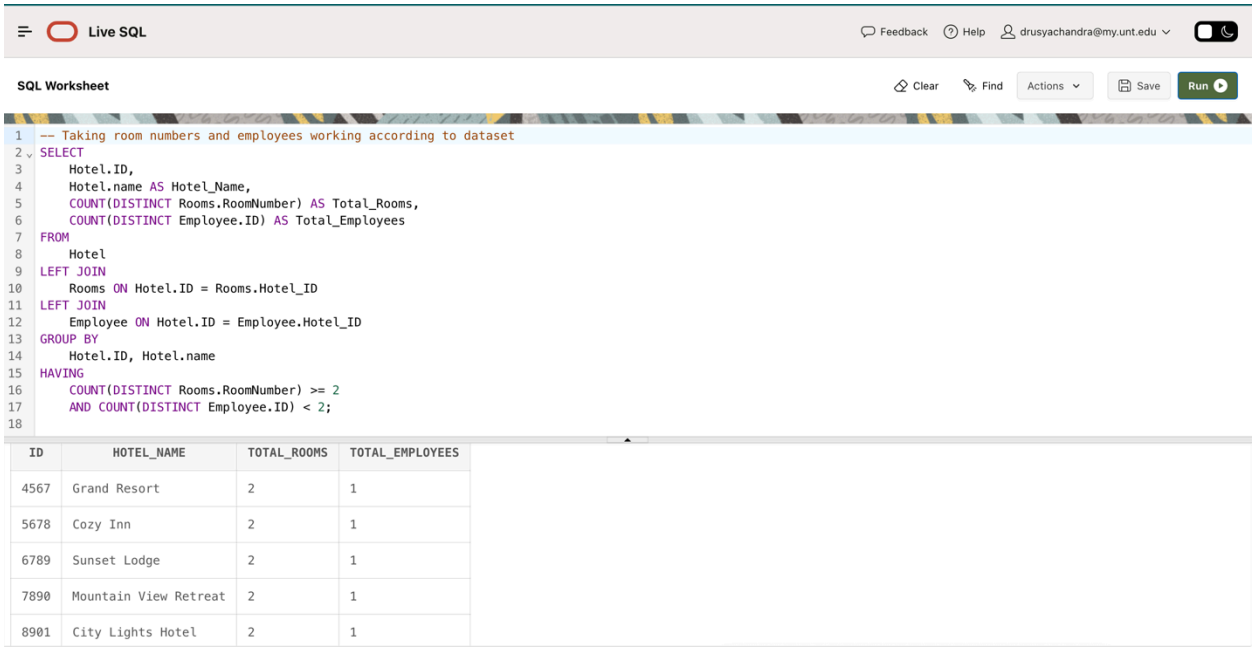
2. Find hotel locations with the lowest reservations on November 23, 2023.



3. Find the name of the employee(s) assigned to hotels in Dallas that had worked the most hours on November 3, 2023.



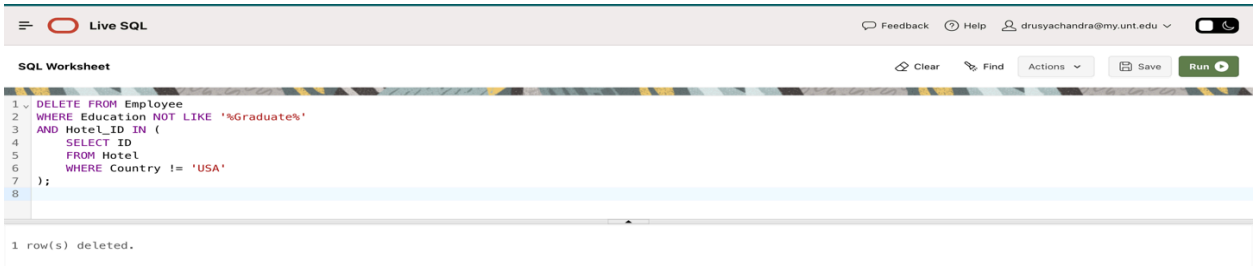
4. List the hotels that have at least 20 rooms but with less than 10 employees working in their location



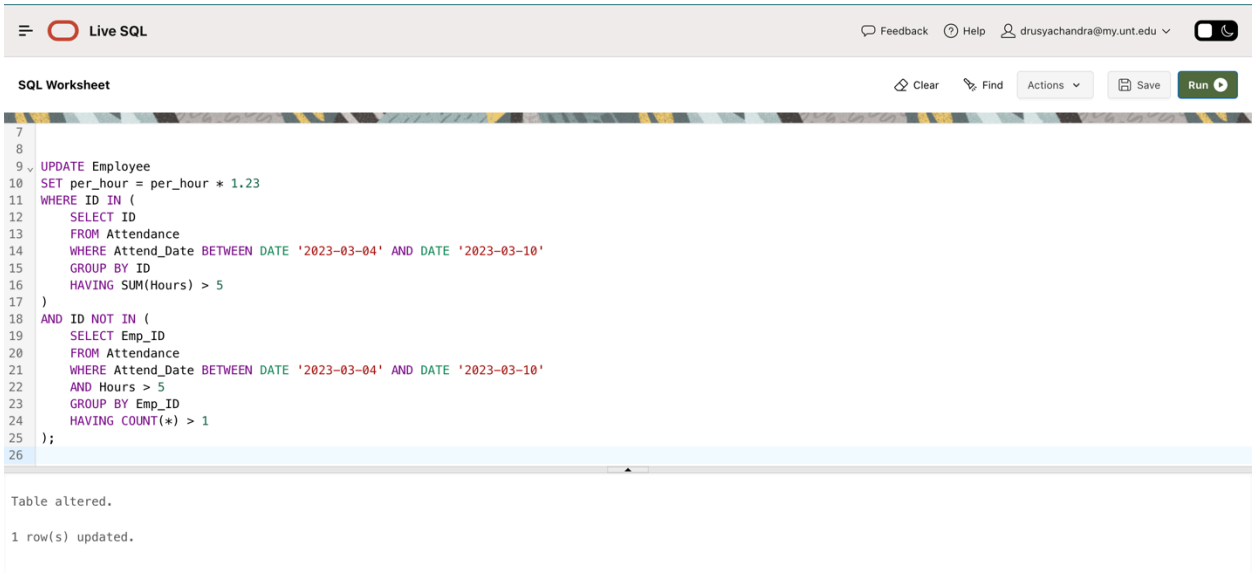
5. Print the payroll from March 4, 2022 to March 10, 2022 displaying employee name, hours worked and total salary for all employees

EMPLOYEE_NAME	HOURS_WORKED	TOTAL_SALARY
Alice Johnson	1722	43050
Michael Williams	1646	41150
David Miller	1698	42450
Jessica Davis	1657	41425
Olivia Garcia	1655	41375
Emily Brown	1686	42150

6. Design a delete statement to delete employees without graduate degrees. in hotels located outside the United States.

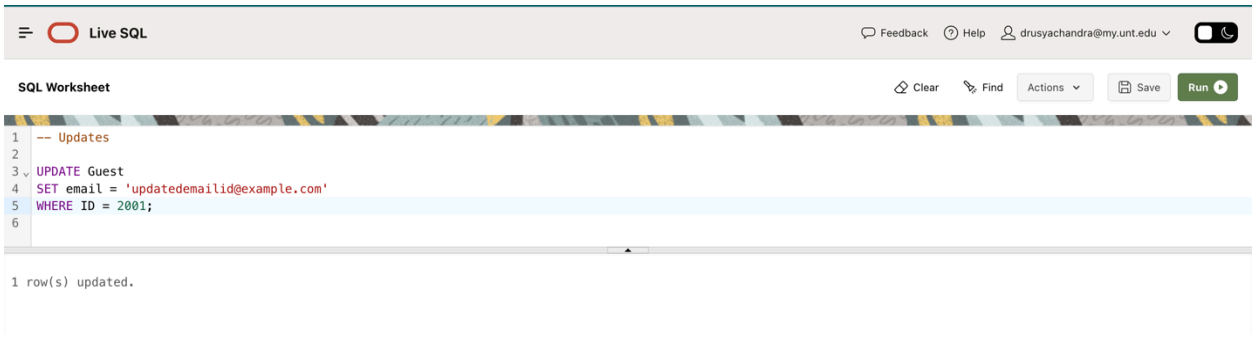


7. Design an update statement to give a 23% salary raise to employees working more than 5 hours from March 4, 2023 to March 10, 2023.

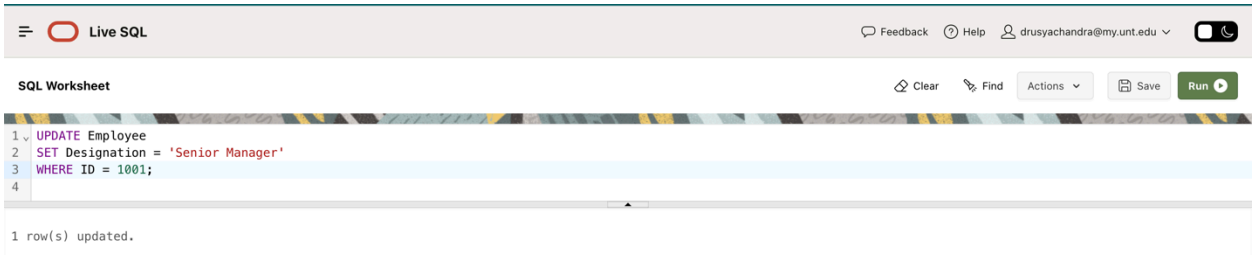


Performing few UPDATE statements on Data Base:

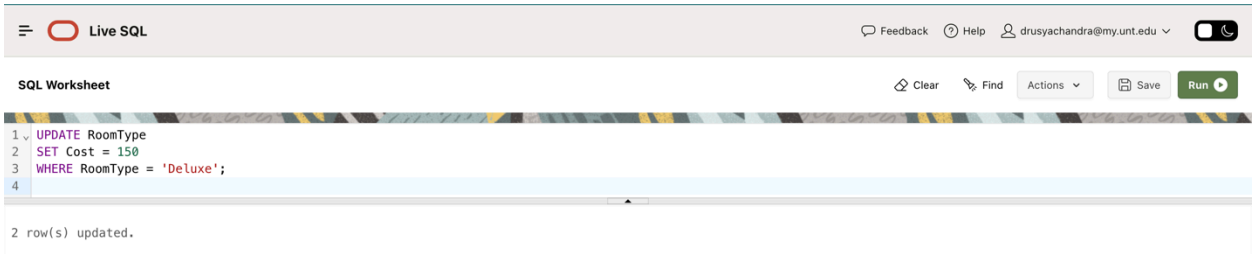
1)



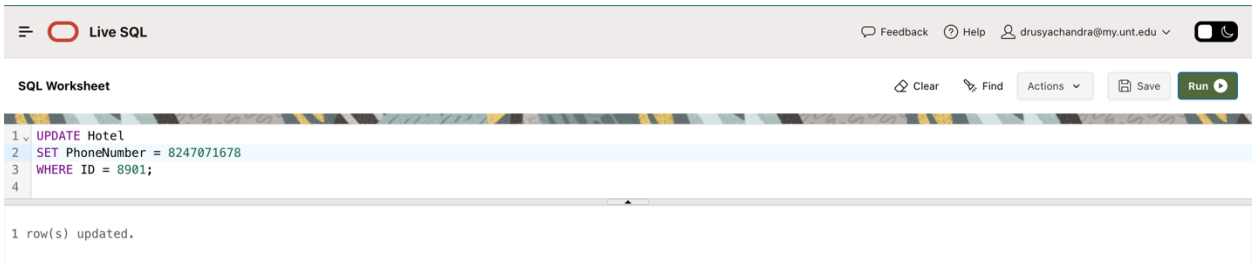
2)



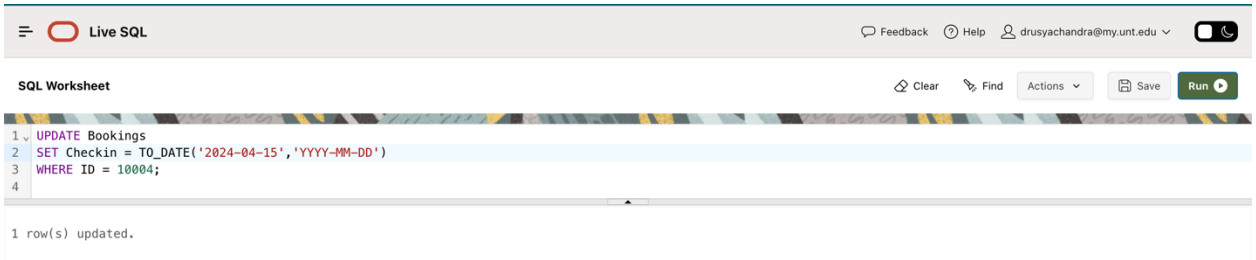
3)


Live SQL
Feedback
Help
drusyachandra@my.unt.edu
SQL Worksheet
Clear
Find
Actions
Save
Run
1 UPDATE RoomType
2 SET Cost = 150
3 WHERE RoomType = 'Deluxe';
4
2 row(s) updated.

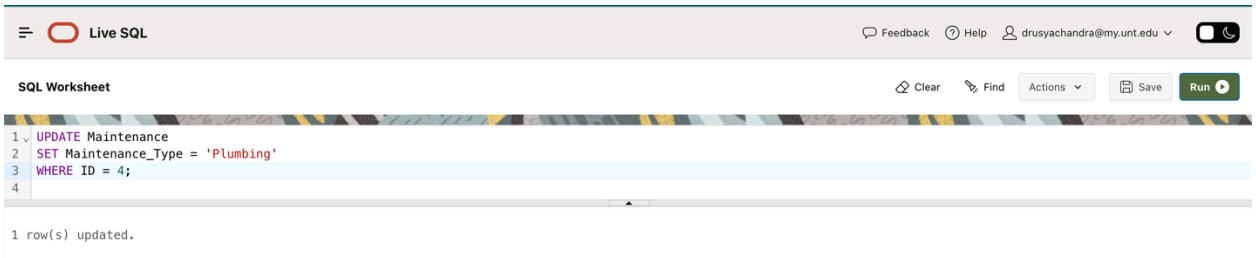
4)


Live SQL
Feedback
Help
drusyachandra@my.unt.edu
SQL Worksheet
Clear
Find
Actions
Save
Run
1 UPDATE Hotel
2 SET PhoneNumber = 8247071678
3 WHERE ID = 8901;
4
1 row(s) updated.

5)

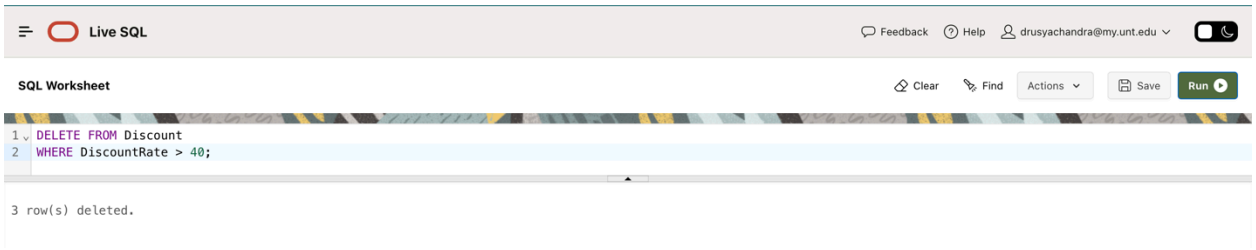

Live SQL
Feedback
Help
drusyachandra@my.unt.edu
SQL Worksheet
Clear
Find
Actions
Save
Run
1 UPDATE Bookings
2 SET Checkin = TO_DATE('2024-04-15','YYYY-MM-DD')
3 WHERE ID = 10004;
4
1 row(s) updated.

6)

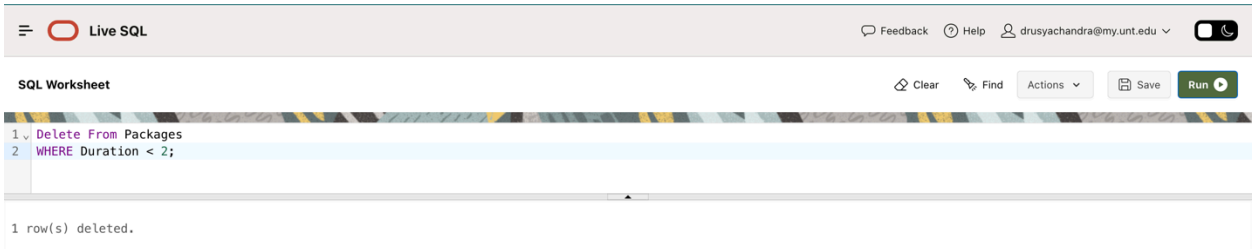

Live SQL
Feedback
Help
drusyachandra@my.unt.edu
SQL Worksheet
Clear
Find
Actions
Save
Run
1 UPDATE Maintenance
2 SET Maintenance_Type = 'Plumbing'
3 WHERE ID = 4;
4
1 row(s) updated.

Performing few DELETE statements on Data Base:

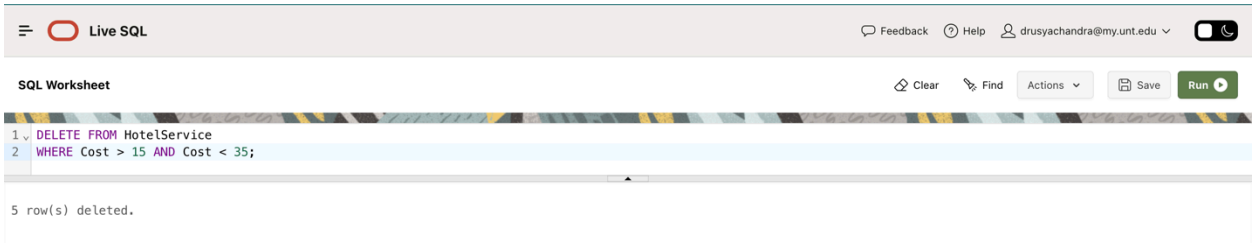
1)



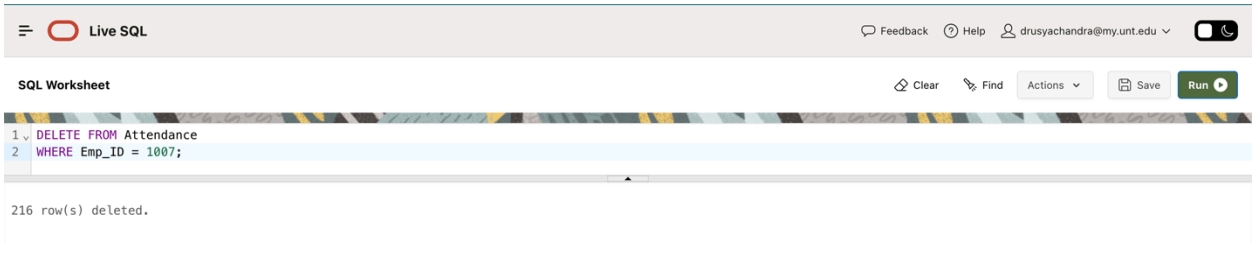
2)



3)

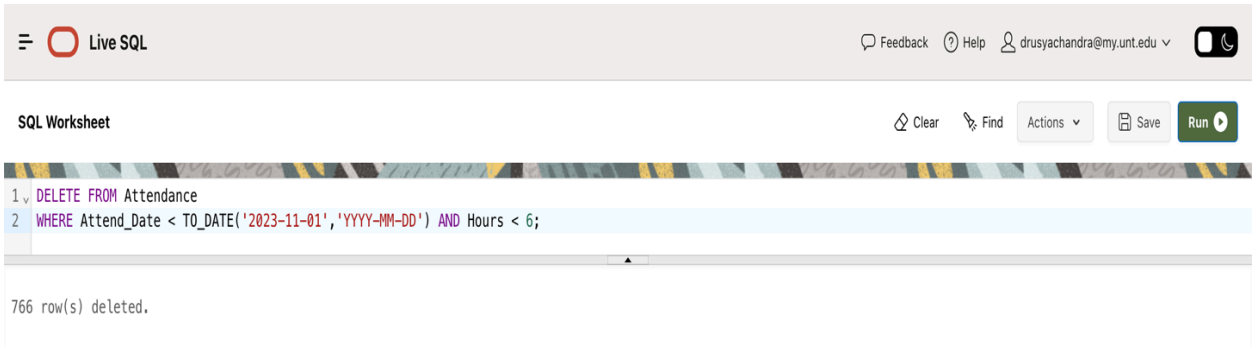


4)



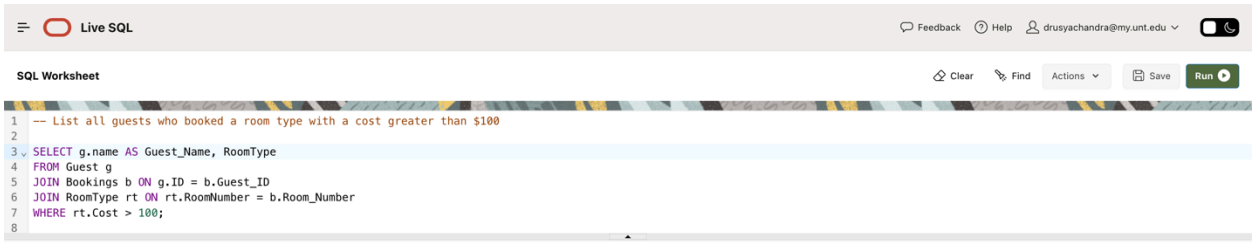
5)

6)



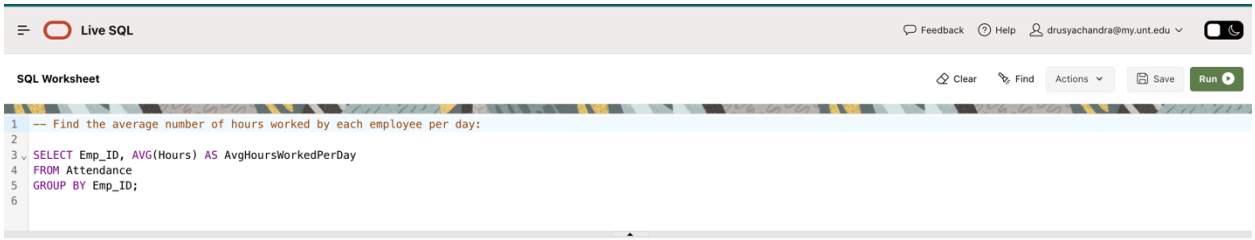
Additional Queries created:

1. **List all guests who booked a room type with a cost greater than $100.**



GUEST_NAME	ROOMTYPE
Bob Smith	Double Bed
Bob Smith	Double Bed
Charlie Brown	Deluxe
David Miller	Double Bed
Emma Davis	Double Bed
Grace Lee	Double Bed
Henry Garcia	Deluxe
Jack Thompson	Double Bed

2) Find the average number of hours worked by each employee per day

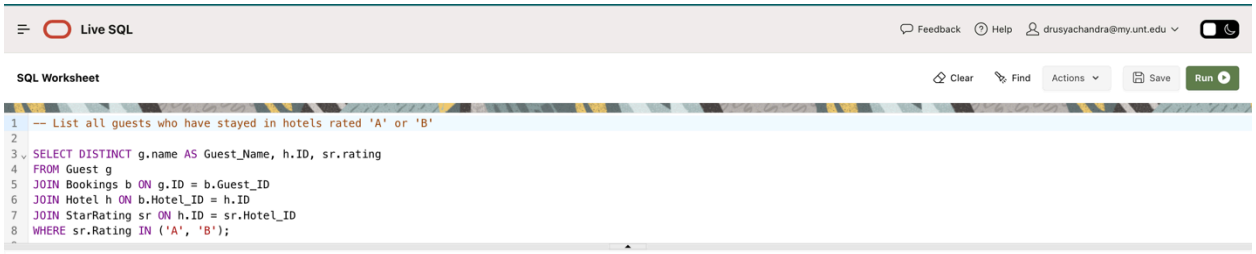


EMP_ID	AVGHOURSWORKEDPERDAY
1009	6.6960784313725490196078431372549019607
1004	6.6138613861386138613861386138613861386
6522	8
1008	6.6602870813397129186602870813397129186
1006	6.4460784313725490196078431372549019607
1010	6.5177664974619289340101522842639593908
1001	6.6354679802955665024630541871921182266
1002	6.6511627906976744186046511627906976744
1005	6.7121212121212121212121212121212121212
1003	6.6021505376344086021505376344086021505

3) Find the total cost of bookings made by each guest

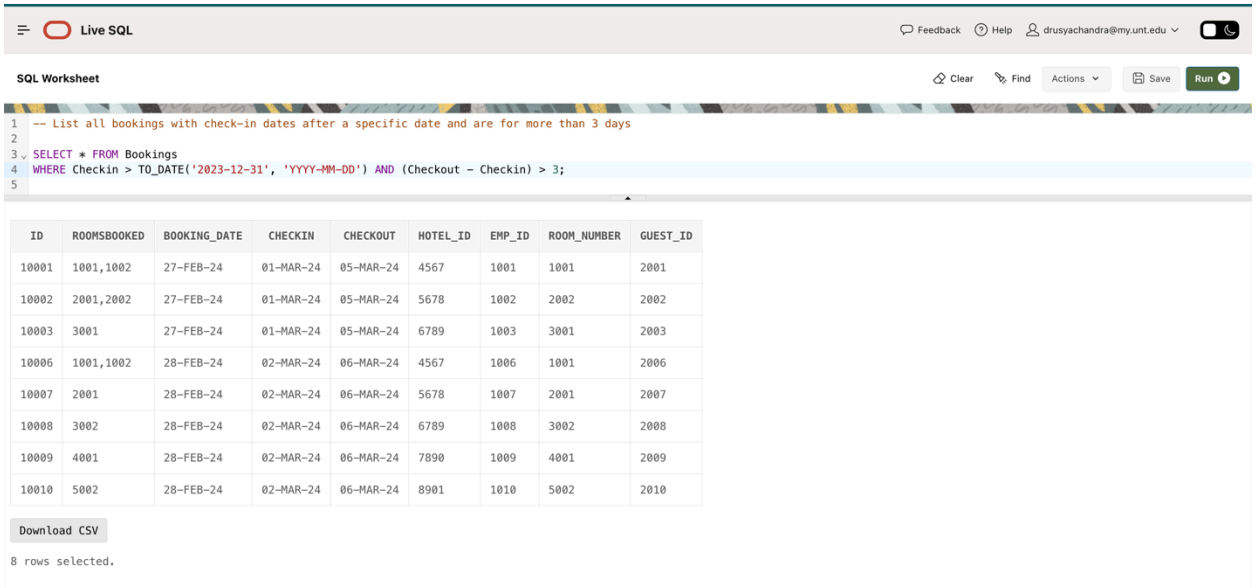
GUEST_NAME	TOTAL_COST
Alice Johnson	100
Ivy Martinez	100
Emma Davis	150
Bob Smith	300
David Miller	250
Grace Lee	150
Charlie Brown	150
Frank Wilson	100
Henry Garcia	150
Jack Thompson	150

4) List all guests who have stayed in hotels rated 'A' or 'B'



GUEST_NAME	ID	RATING
Bob Smith	5678	B
Alice Johnson	4567	A
Frank Wilson	4567	A
Grace Lee	5678	B

5) List all bookings with check-in dates after a specific date and are far more than 3 days.

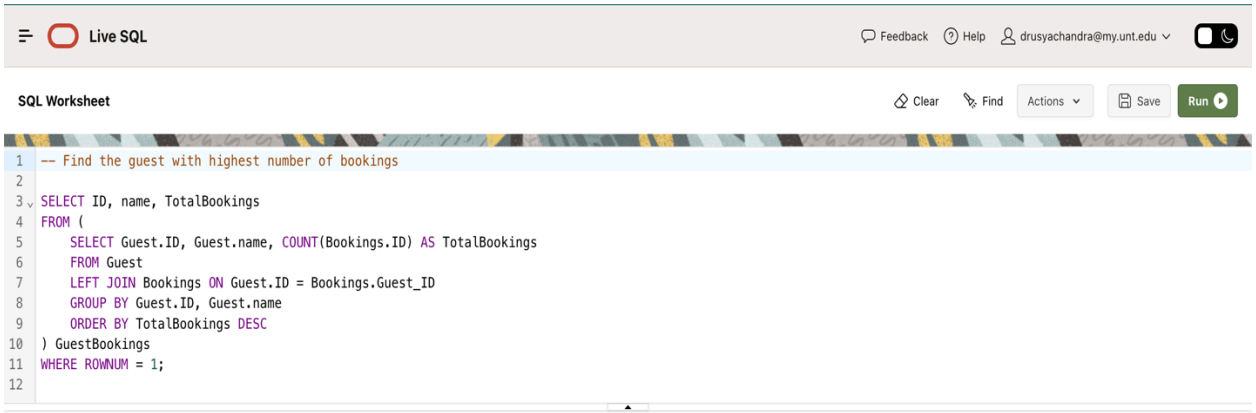


ID	ROOMSBOOKED	BOOKING_DATE	CHECKIN	CHECKOUT	HOTEL_ID	EMP_ID	ROOM_NUMBER	GUEST_ID
10001	1001,1002	27-FEB-24	01-MAR-24	05-MAR-24	4567	1001	1001	2001
10002	2001,2002	27-FEB-24	01-MAR-24	05-MAR-24	5678	1002	2002	2002
10003	3001	27-FEB-24	01-MAR-24	05-MAR-24	6789	1003	3001	2003
10006	1001,1002	28-FEB-24	02-MAR-24	06-MAR-24	4567	1006	1001	2006
10007	2001	28-FEB-24	02-MAR-24	06-MAR-24	5678	1007	2001	2007
10008	3002	28-FEB-24	02-MAR-24	06-MAR-24	6789	1008	3002	2008
10009	4001	28-FEB-24	02-MAR-24	06-MAR-24	7890	1009	4001	2009
10010	5002	28-FEB-24	02-MAR-24	06-MAR-24	8901	1010	5002	2010

Download CSV

8 rows selected.

6) Find the guests with highest number of bookings.

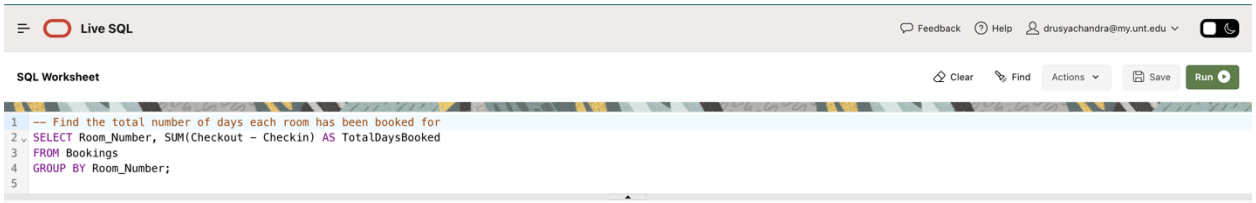


ID	NAME	TOTALBOOKINGS
2004	David Miller	2

7) Calculate the total revenue generated by each hotel from bookings

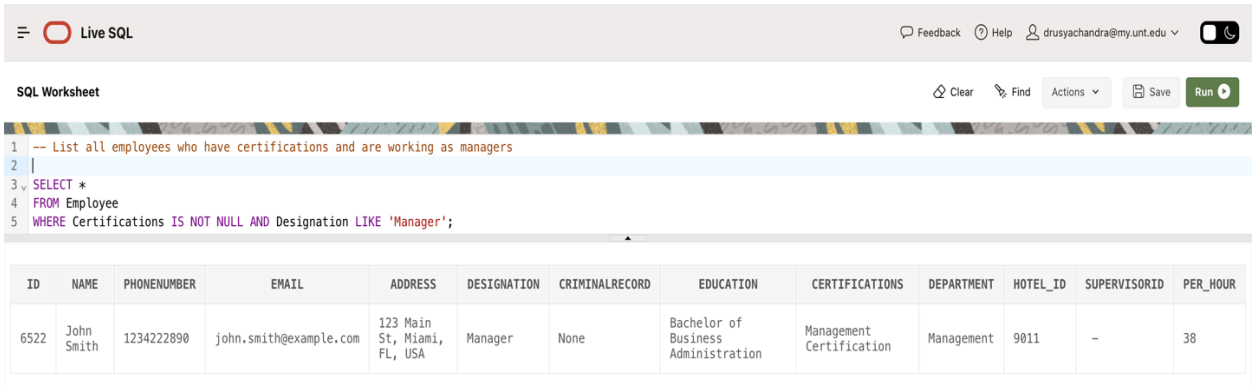
NAME	TOTALREVENUE
City Lights Hotel	450
Riverside Retreat	-
Sunny Beach Resort	-
The Vineyard Inn	-
Harbor View Hotel	-
Cozy Inn	750
Grand Resort	400
Mountain Peak Lodge	-
Sunset Lodge	300
Mountain View Retreat	200
JKM Grand	-

8) List the total number of days each room has been booked for



ROOM_NUMBER	TOTALDAYSBOOKED
5001	69
4001	4
2002	8
2001	4
3002	4
5002	4
1001	8
3001	4

9) List all employees who have certifications and are working as managers



ID	NAME	PHONENUMBER	EMAIL	ADDRESS	DESIGNATION	CRIMINALRECORD	EDUCATION	CERTIFICATIONS	DEPARTMENT	HOTEL_ID	SUPERVISORID	PER_HOUR
6522	John Smith	1234222890	john.smith@example.com	123 Main St, Miami, FL, USA	Manager	None	Bachelor of Business Administration	Management Certification	Management	9011	-	38

10) List all hotels along with the count of bookings made in each hotel

NAME	TOTALBOOKINGS
City Lights Hotel	3
Riverside Retreat	0
Sunny Beach Resort	0
The Vineyard Inn	0
Harbor View Hotel	0
Cozy Inn	3
Grand Resort	2
Mountain Peak Lodge	0
Sunset Lodge	2
Mountain View Retreat	2
JKM Grand	0

Individual Contributions:

For this week's submission, I wrote and executed the given 7 queries. I also wrote the update, delete and the 10 additional queries for the QueHotel database.

I also assisted with the documentation for this week, taking screenshots and formatting the document wherever necessary.

I also organized timely and productive meetings to discuss the project and update the project wherever necessary.