SUBMITTED BY

Lalit prajapati

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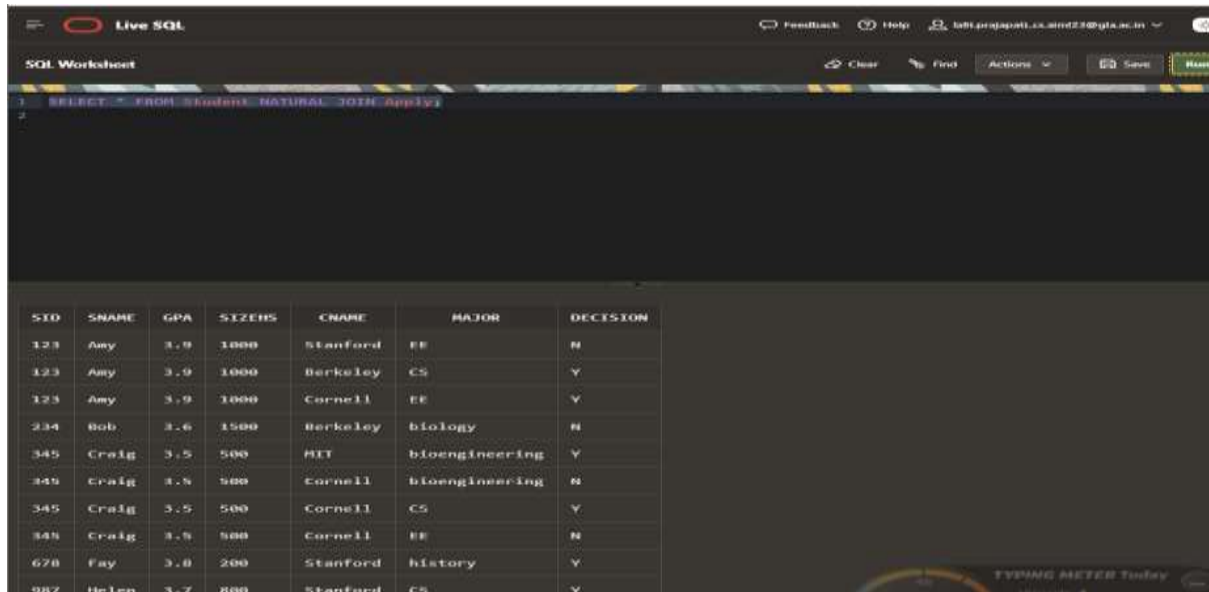
Dr. Surendra Kumar

SUBMITTED ON

21st February 2024

Write SQL Queries

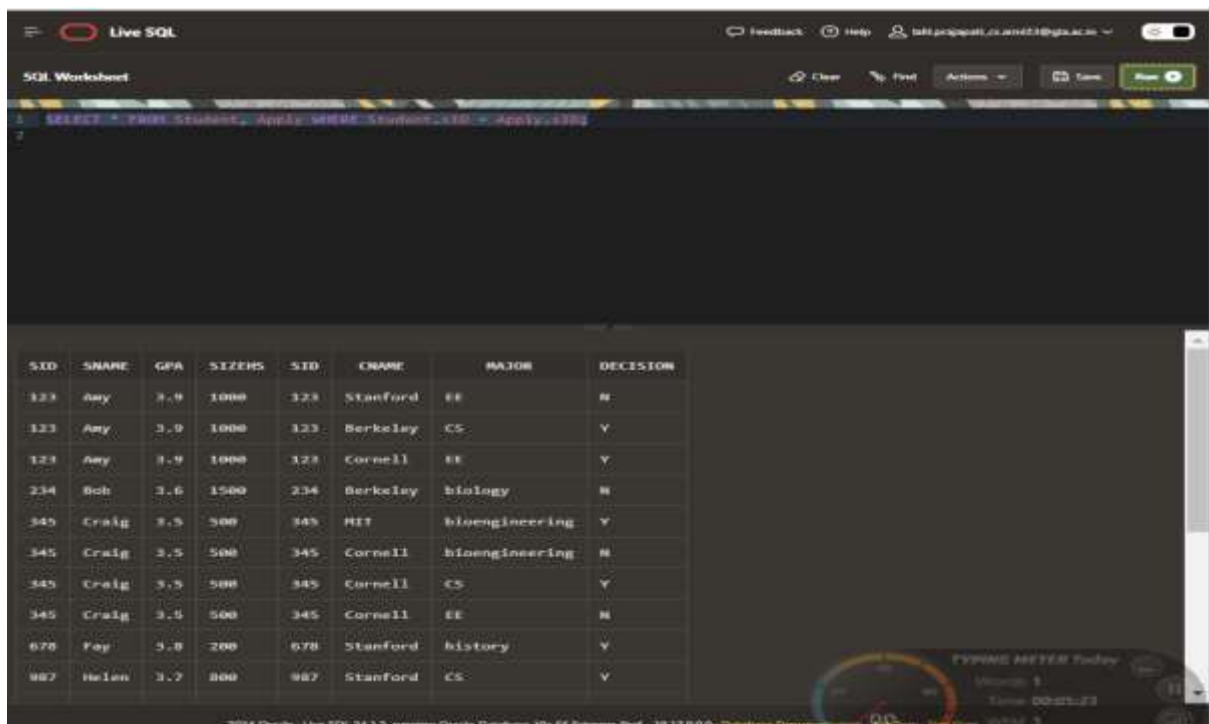Q1: Produce a combine table in which each student is combine with every other application.

Q2: Give Student ID, name, GPA and name of college and major each student applied to.

Q3. Find detail of applications who applied to California State.


```sql
SELECT * FROM Apply, College WHERE state = 'CA';
```

SID	CNAME	MAJOR	DECISION	COLLEGENAME	STATE	ENROLLMENT
123	Stanford	EE	N	Stanford	CA	15000
123	Berkeley	CS	Y	Stanford	CA	15000
123	Cornell	EE	Y	Stanford	CA	15000
254	Berkeley	biology	N	Stanford	CA	15000
345	MIT	bioengineering	Y	Stanford	CA	15000
345	Cornell	bioengineering	N	Stanford	CA	15000
345	Cornell	CS	Y	Stanford	CA	15000
345	Cornell	EE	N	Stanford	CA	15000
678	Stanford	history	Y	Stanford	CA	15000
987	Stanford	CS	Y	Stanford	CA	15000

Q4. IDs, name, GPA of students and name of college with GPA > 3.7 applying to Stanford
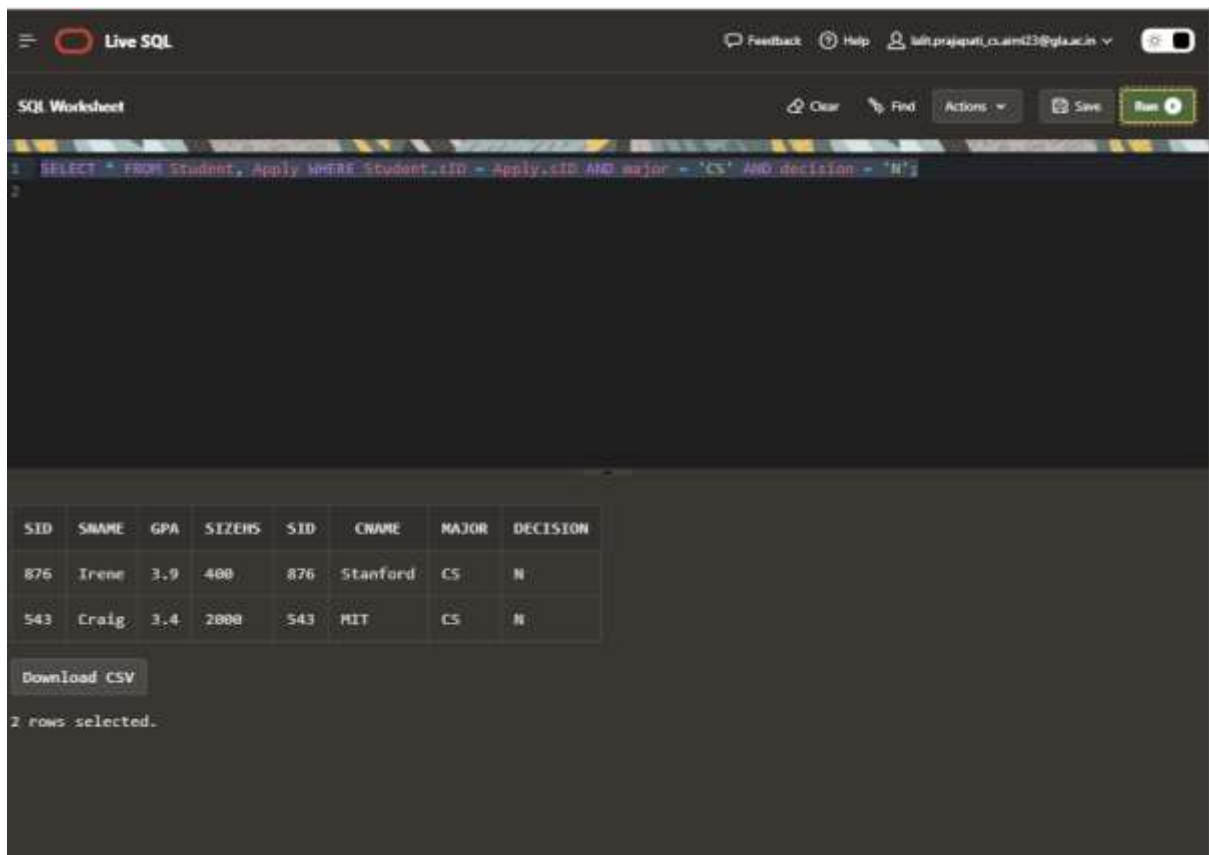


```sql
SELECT * FROM Student, Apply WHERE Student.sID = Apply.sID AND GPA >3.7 AND cName = 'Stanford';
```

SID	SNAME	GPA	SIZEHS	SID	CNAME	MAJOR	DECISION
123	Amy	3.9	1000	123	Stanford	EE	N
678	Fay	3.8	200	678	Stanford	history	Y
876	Irene	3.9	400	876	Stanford	CS	N

Download CSV

3 rows selected.

Q5. Find detail of Student who apply to CS major and their application are rejected
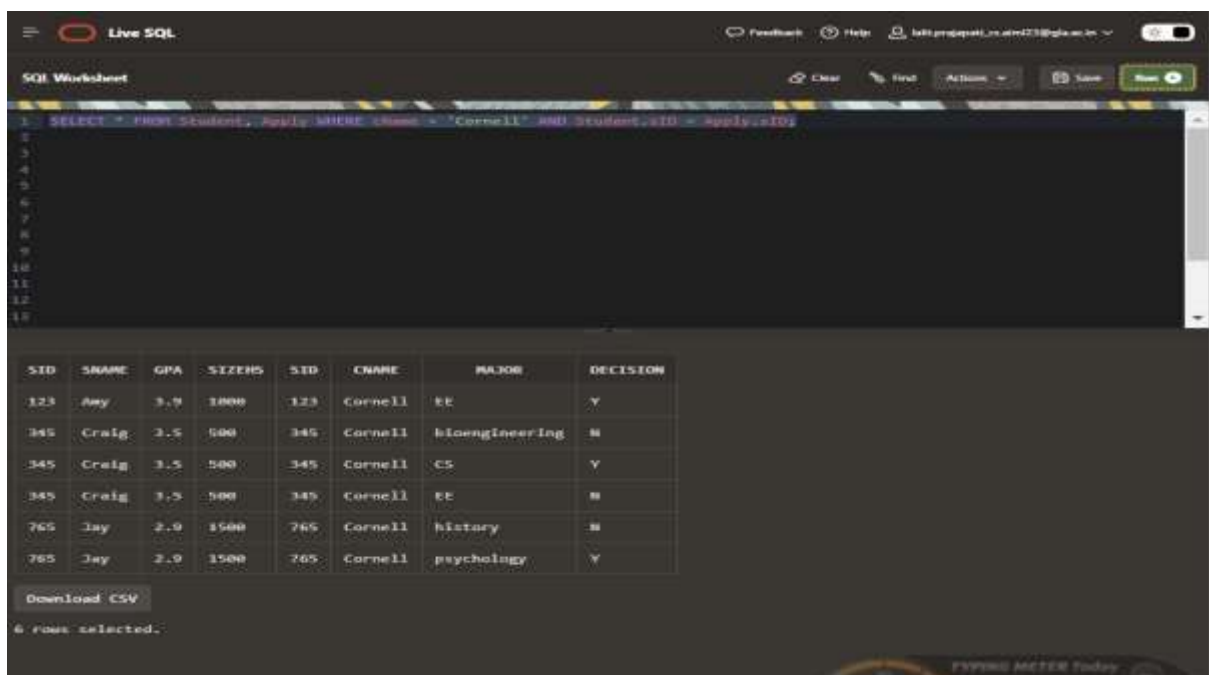


```
1  SELECT * FROM Student, Apply WHERE Student.sID = Apply.sID AND major = 'CS' AND decision = 'N';
```

SID	SNAME	GPA	SIZEHS	SID	CNAME	MAJOR	DECISION
876	Irene	3.9	400	876	Stanford	CS	N
543	Craig	3.4	2000	543	MIT	CS	N

Download CSV

2 rows selected.

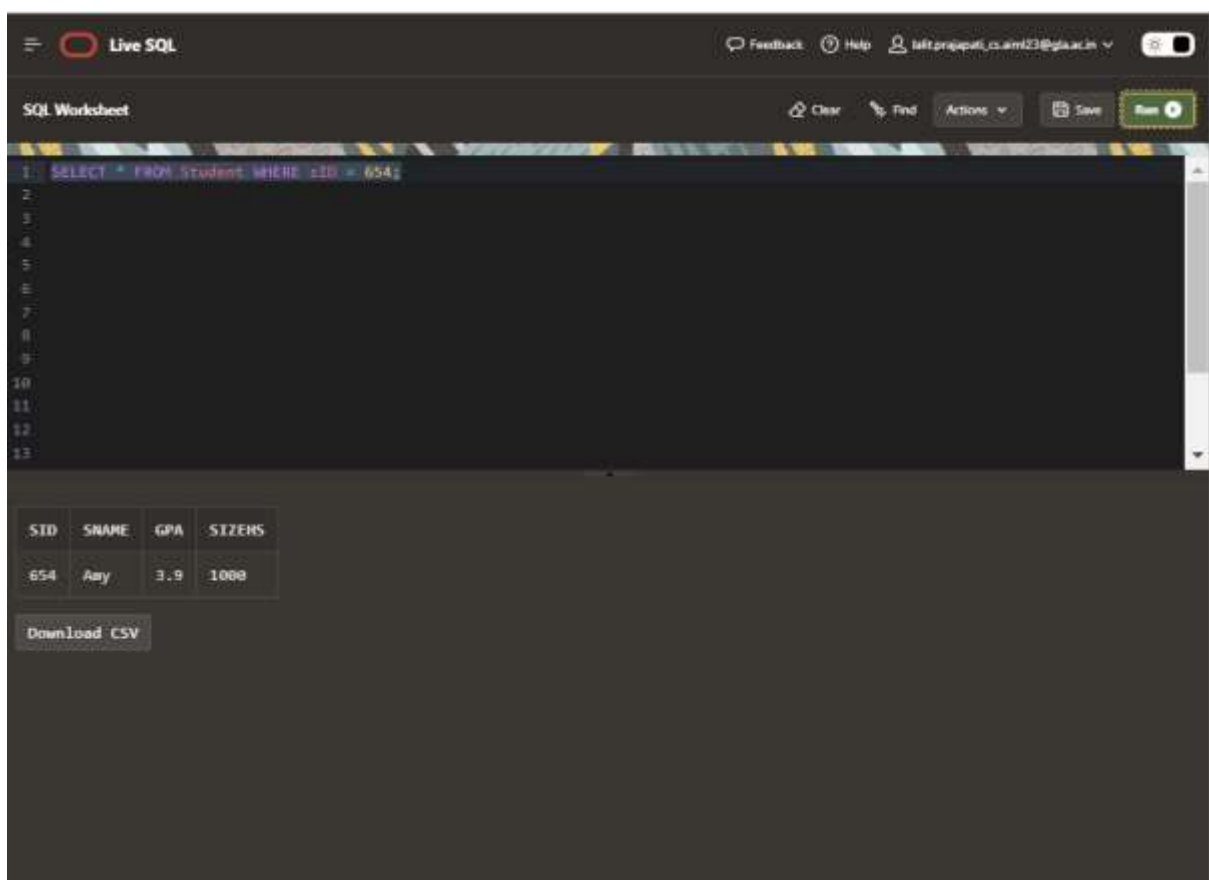## Q6. Find detail of student and application who applied to colleges at New York


```
1  SELECT * FROM Student, Apply WHERE cName = 'Cornell' AND Student.sID = Apply.sID;
```

SID	SNAME	GPA	SIZEHS	SID	CNAME	MAJOR	DECISION
123	Amy	3.9	1000	123	Cornell	EE	Y
345	Craig	3.5	500	345	Cornell	bioengineering	N
345	Craig	3.5	500	345	Cornell	CS	Y
345	Craig	3.5	500	345	Cornell	EE	N
765	Jay	2.9	1500	765	Cornell	history	N
765	Jay	2.9	1500	765	Cornell	psychology	Y

Download CSV

6 rows selected.

Q7. Find detail of student who have not applied to any of college
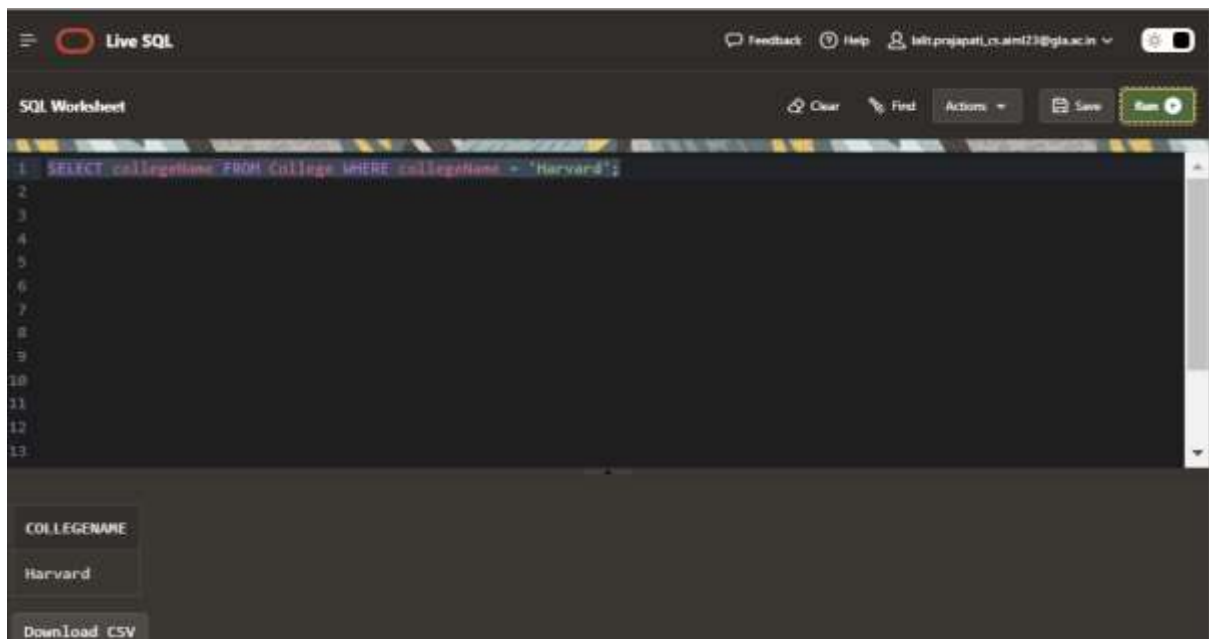
SQL Worksheet Clear Find Actions ▾ Save Run

```
1  SELECT * FROM Student WHERE sID = 654;
2
3
4
5
6
7
8
9
10
11
12
13
```

SID	SNAME	GPA	SIZEHS
654	Amy	3.9	1000

Download CSV

Q8. Find college where no student have applied

Q9. Find sID who have only one application

Q10. Find name and GPA of applicants who apply to any college whose enrollment is not more than 25000.

```
1  SELECT sName, GPA FROM Student, College WHERE enrollment <= 25000;
2
3
4
5
6
7
8
9
10
11
12
13
```

SNAME	GPA
Amy	3.9
Bob	3.6
Craig	3.5
Doris	3.9
Edward	2.9
Fay	3.8
Gary	3.4
Helen	3.7
Irene	3.9
Jay	2.9

Q11. Find pair of students (sID) having same GPA. (each pair should occur just once in result)

SQL Worksheet

```
1  SELECT t.sID, x.sID, x.GPA FROM student t JOIN student x ON t.GPA = x.GPA AND t.sID < x.sID;
2
3
4
5
6
7
8
9
10
11
12
13
```

SID	SID	GPA
123	456	3.9
543	789	3.4
123	876	3.9
456	876	3.9
654	876	3.9
567	765	2.9
123	654	3.9
456	654	3.9

Download CSV

8 rows selected.

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