AATHIRA S
21BCE3680

EXERCISE 3 AND 4

Functions, Operators and Group Functions

LIVESQL LINKS:

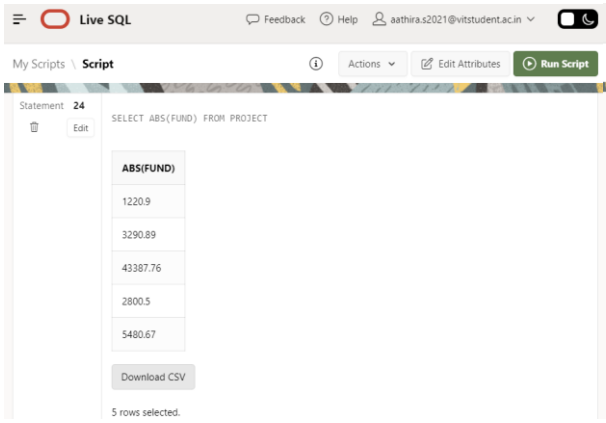
Exercise 3: https://livesql.oracle.com/apex/livesql/s/paz0d2hebp9yrds3o7809dxia

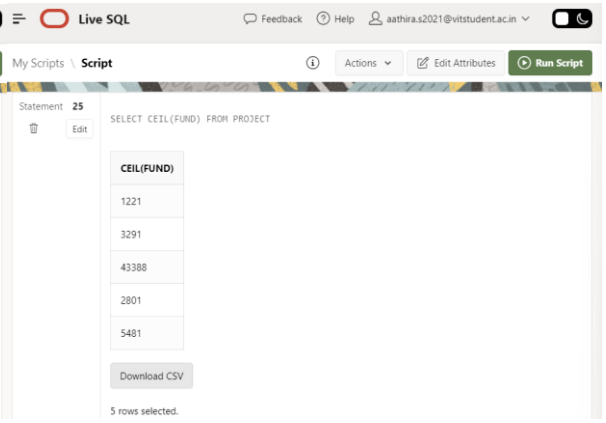
Exercise 4: https://livesql.oracle.com/apex/livesql/s/paz0d2hehh2rojbp0m749ufoi

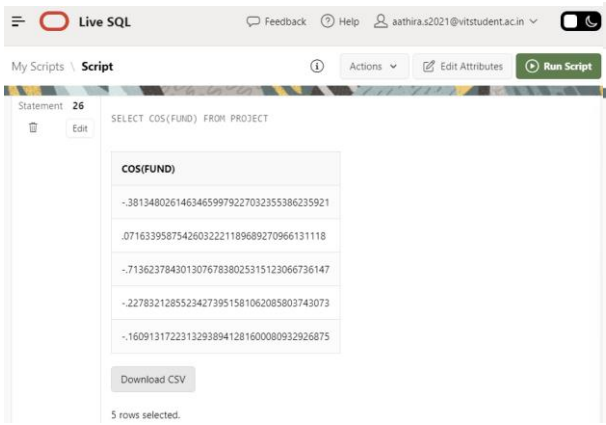
Exercise 3

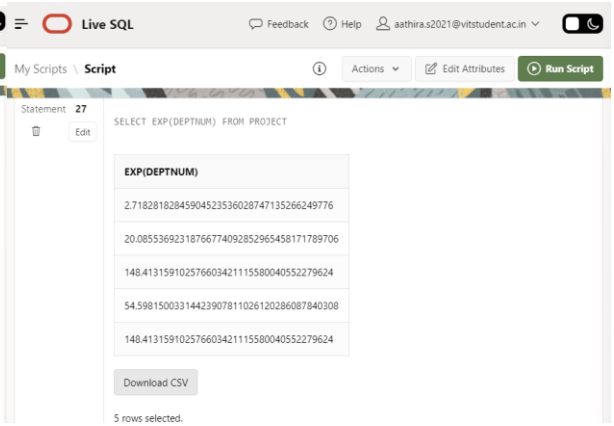
Aim: To understand types of function in SQL

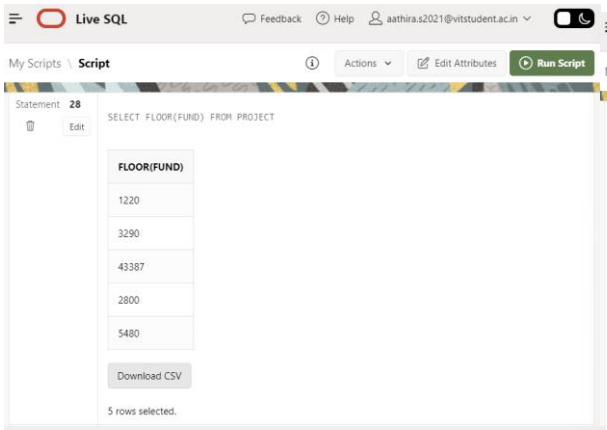
1. Apply SQL queries to retrieve data by using all numeric functions.

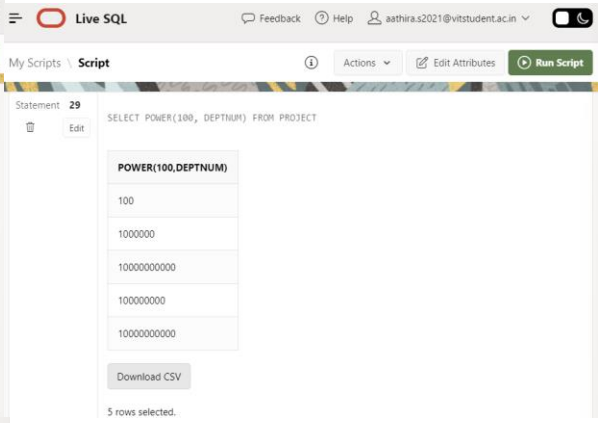


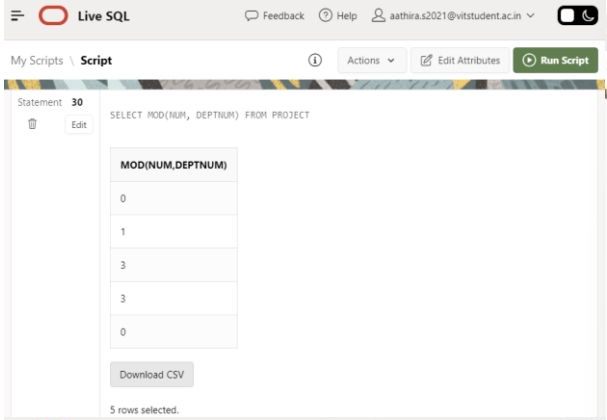


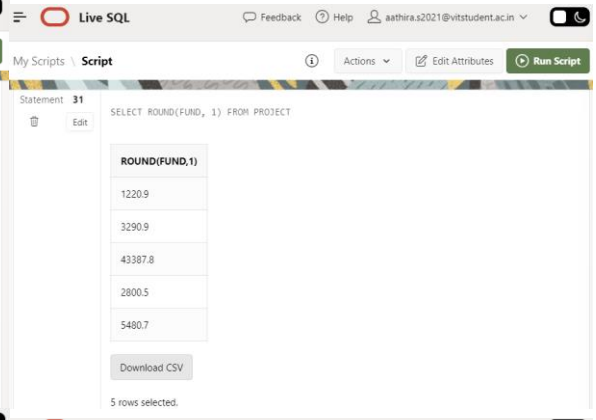





Live SQL
Feedback
Help
aathira.s2021@vitstudent.ac.in
My Scripts \ Script
Actions
Edit Attributes
Run Script
Statement 28
Edit
SELECT FLOOR(FUND) FROM PROJECT
FLOOR(FUND)
1220
3290
43387
2800
5480
Download CSV
5 rows selected.


Live SQL
Feedback
Help
aathira.s2021@vitstudent.ac.in
My Scripts \ Script
Actions
Edit Attributes
Run Script
Statement 29
Edit
SELECT POWER(100, DEPTNUM) FROM PROJECT
POWER(100,DEPTNUM)
100
1000000
10000000000
100000000
10000000000
Download CSV
5 rows selected.


Live SQL
Feedback
Help
aathira.s2021@vitstudent.ac.in
My Scripts \ Script
Actions
Edit Attributes
Run Script
Statement 30
Edit
SELECT MOD(NUM, DEPTNUM) FROM PROJECT
MOD(NUM,DEPTNUM)
0
1
3
3
0
Download CSV
5 rows selected.


Live SQL
Feedback
Help
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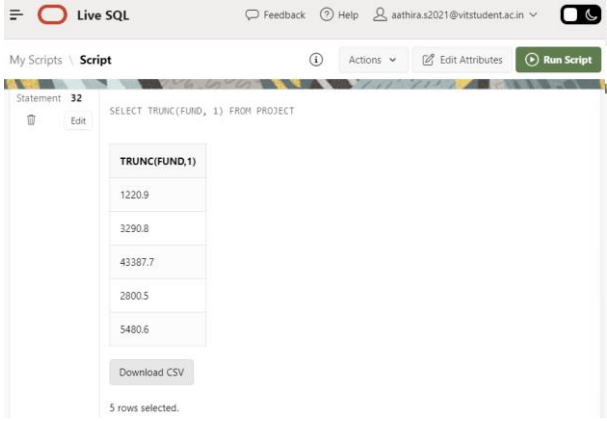
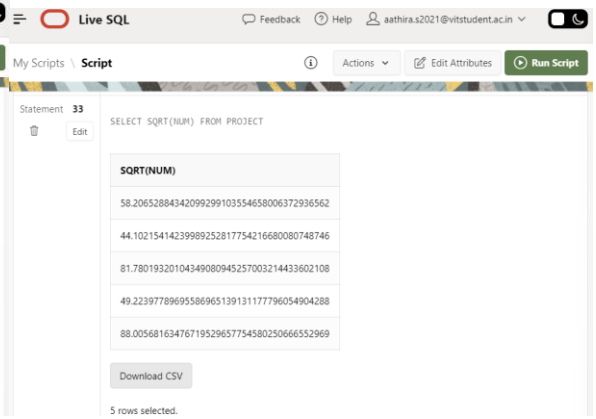
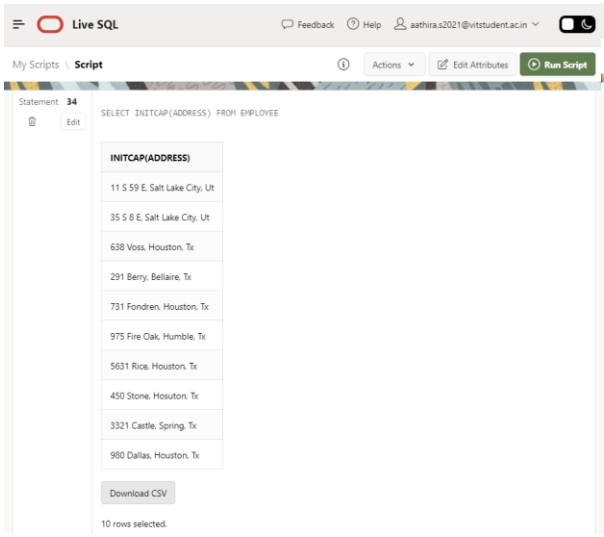
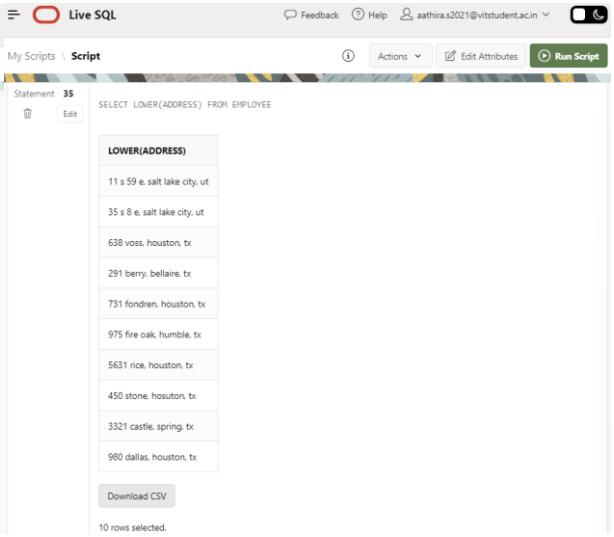
My Scripts \ Script
Actions
Edit Attributes
Run Script
Statement 31
Edit
SELECT ROUND(FUND, 1) FROM PROJECT
ROUND(FUND,1)
1220.9
3290.9
43387.8
2800.5
5480.7
Download CSV
5 rows selected.

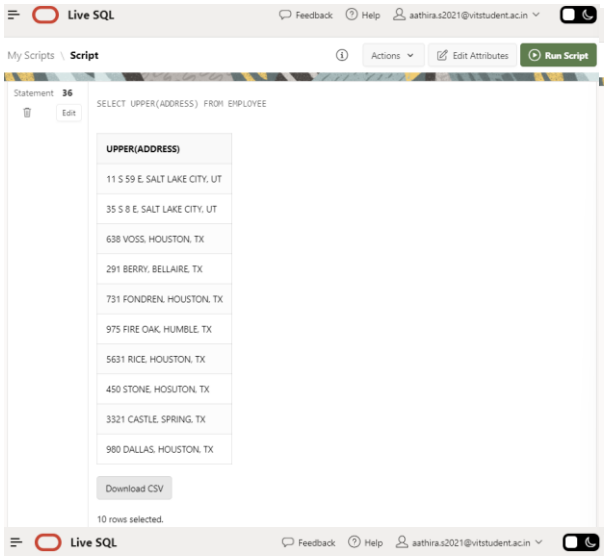

Live SQL
Feedback
Help
aathira.s2021@vitstudent.ac.in
My Scripts \ Script
Actions
Edit Attributes
Run Script
Statement 32
Edit
SELECT TRUNC(FUND, 1) FROM PROJECT
TRUNC(FUND,1)
1220.9
3290.8
43387.7
2800.5
5480.6
Download CSV
5 rows selected.

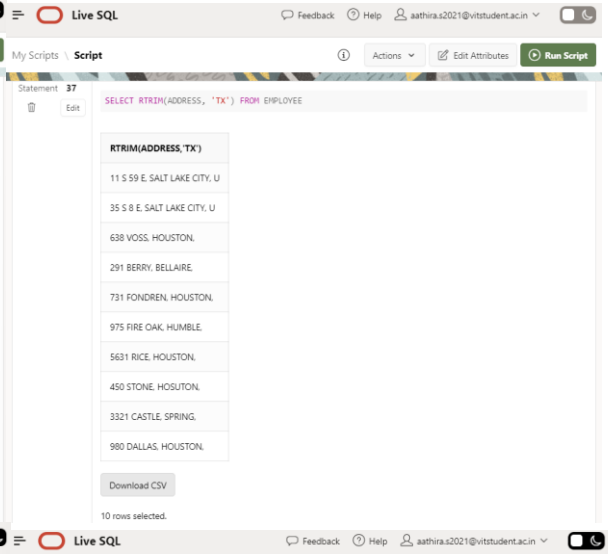

Live SQL
Feedback
Help
aathira.s2021@vitstudent.ac.in
My Scripts \ Script
Actions
Edit Attributes
Run Script
Statement 33
Edit
SELECT SQRT(NUM) FROM PROJECT
SQRT(NUM)
58.206528843420992991035546580063729365 62
44.102154142399892528177542166800807487 46
81.780193201043490809452570032144336021 08
49.223977896955869651391311777960549042 88
88.005681634767195296577545802506665529 69
Download CSV
5 rows selected.

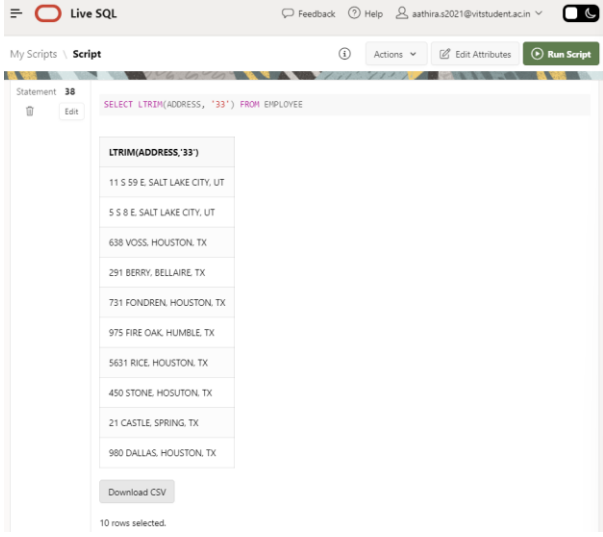
2. Apply SQL queries to retrieve data by using all character functions.

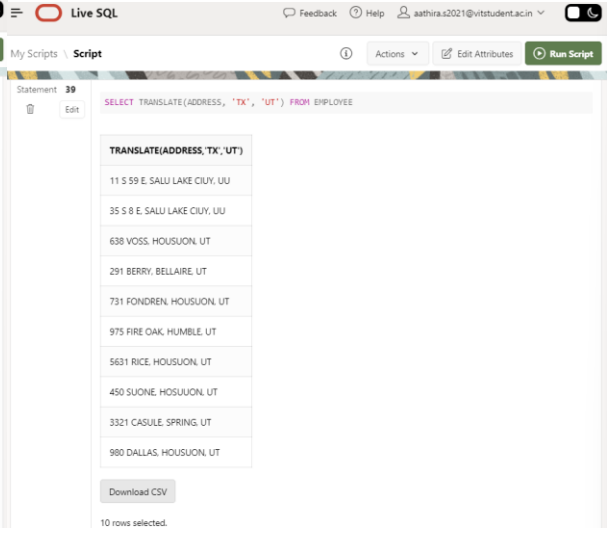


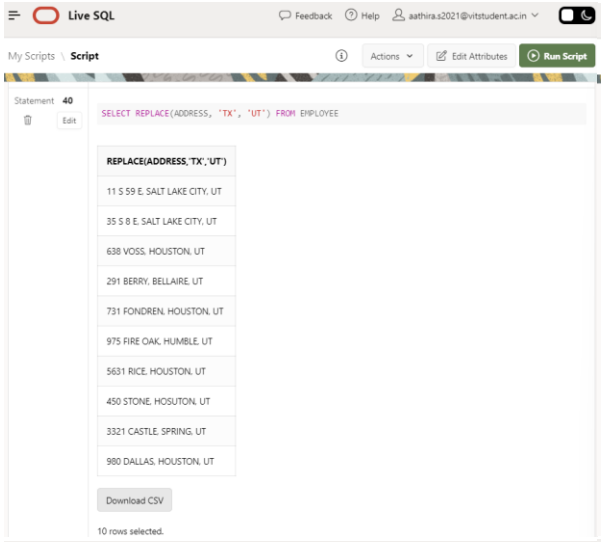












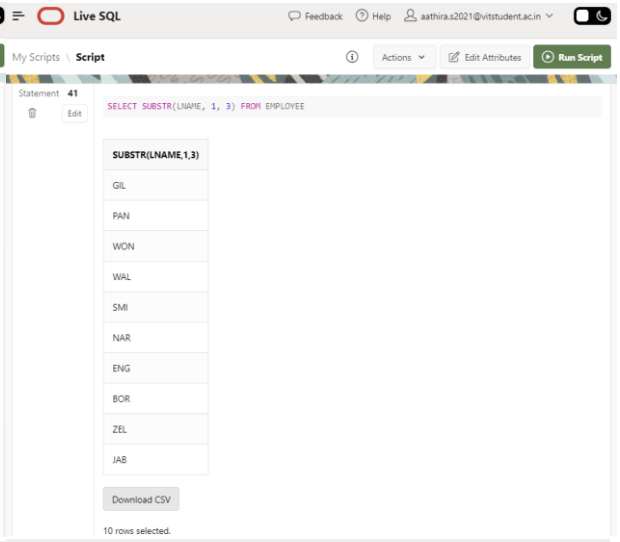
Statement 40

```
SELECT REPLACE(ADDRESS, 'TX', 'UT') FROM EMPLOYEE
```

REPLACE(ADDRESS,'TX','UT')
11 S 59 E. SALT LAKE CITY, UT
35 S 8 E. SALT LAKE CITY, UT
638 VOSS, HOUSTON, UT
291 BERRY, BELLAIRE, UT
731 FONDREN, HOUSTON, UT
975 FIRE OAK, HUMBLE, UT
5631 RICE, HOUSTON, UT
450 STONE, HOSUTON, UT
3321 CASTLE, SPRING, UT
980 DALLAS, HOUSTON, UT

Download CSV

10 rows selected.



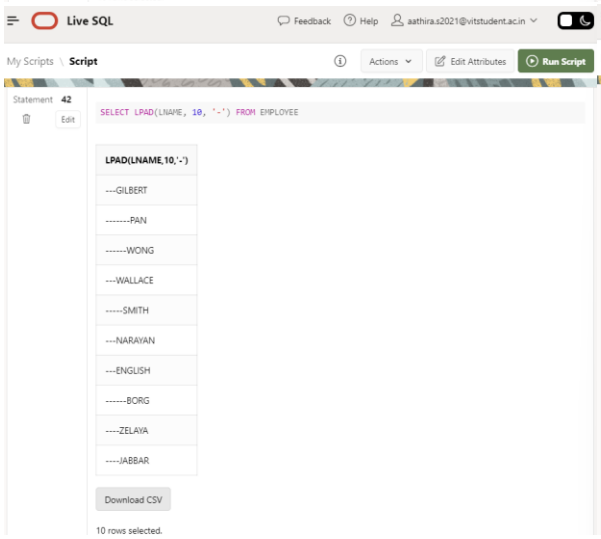
Statement 41

```
SELECT SUBSTR(LNAME, 1, 3) FROM EMPLOYEE
```

SUBSTR(LNAME,1,3)
GIL
PAN
WON
WAL
SMI
NAR
ENG
BOR
ZEL
JAB

Download CSV

10 rows selected.



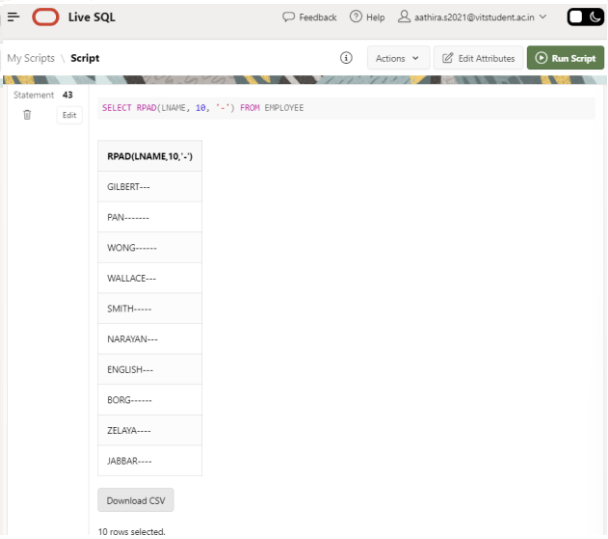
Statement 42

```
SELECT LPAD(LNAME, 10, '-') FROM EMPLOYEE
```

LPAD(LNAME,10,'-')
---GILBERT
-------PAN
------WONG
---WALLACE
-----SMITH
---NARAYAN
---ENGLISH
------BORG
----ZELAYA
----JABBAR

Download CSV

10 rows selected.



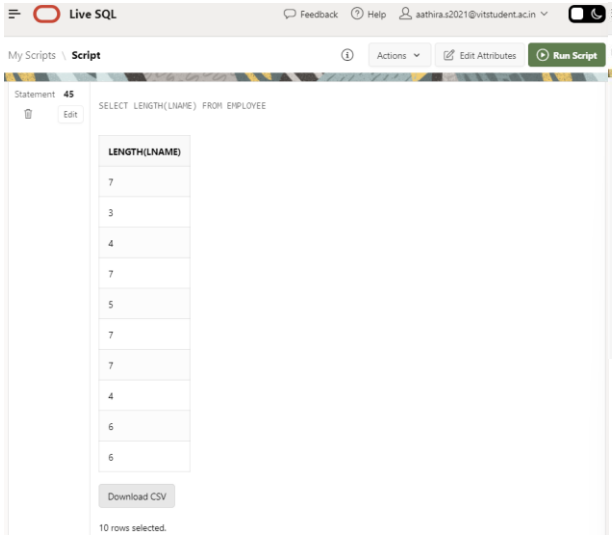
Statement 43

```
SELECT RPAD(LNAME, 10, '-') FROM EMPLOYEE
```

RPAD(LNAME,10,'-')
GILBERT---
PAN-------
WONG------
WALLACE---
SMITH-----
NARAYAN---
ENGLISH---
BORG------
ZELAYA----
JABBAR----

Download CSV

10 rows selected.



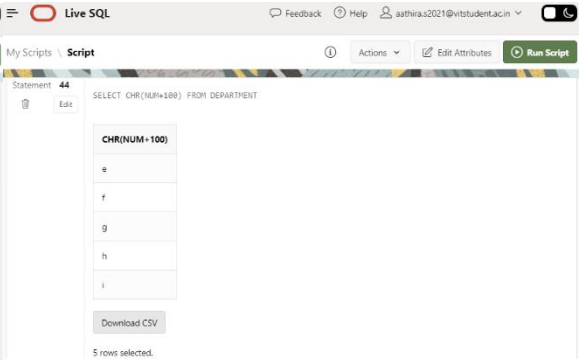
Statement 45

```
SELECT LENGTH(LNAME) FROM EMPLOYEE
```

LENGTH(LNAME)
7
3
4
7
5
7
7
4
6
6

Download CSV

10 rows selected.



Statement 44

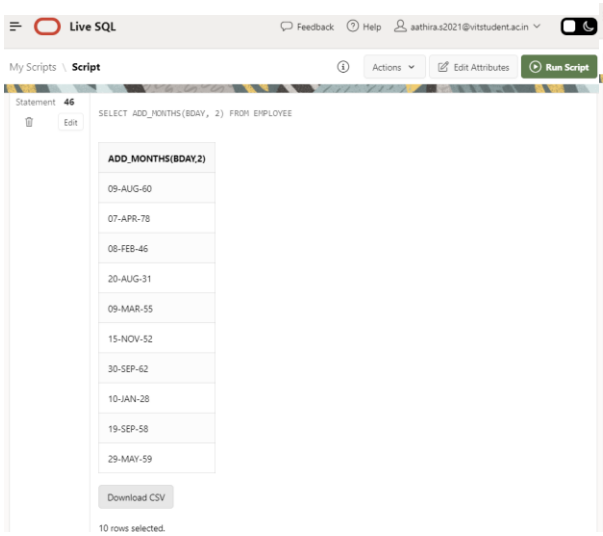
```
SELECT CHR(NUM+100) FROM DEPARTMENT
```

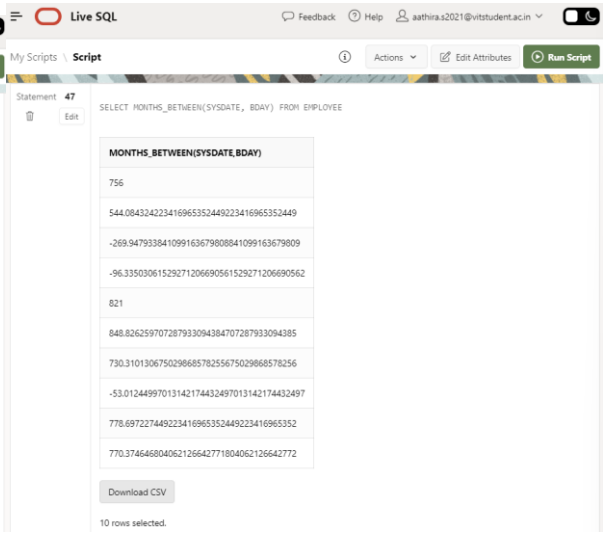
CHR(NUM+100)
e
f
g
h
i

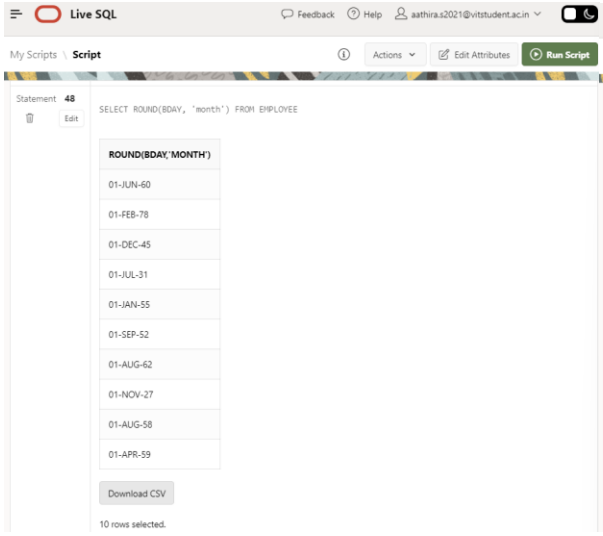
Download CSV

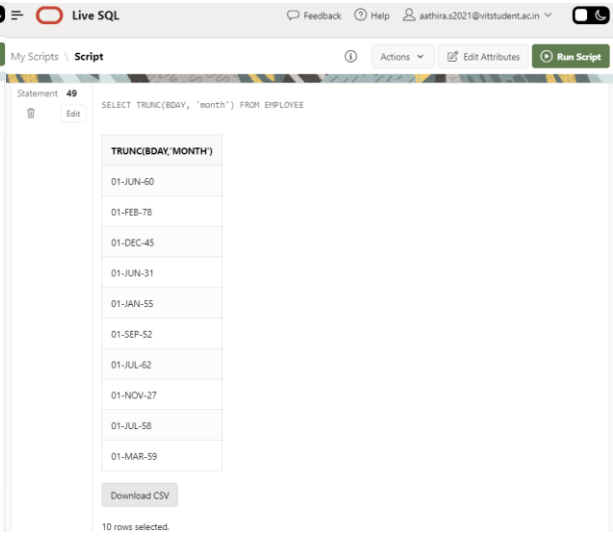
5 rows selected.

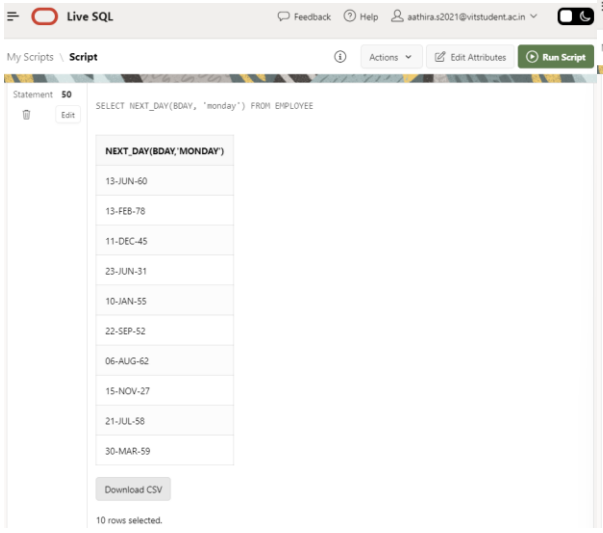
3. Apply SQL queries to retrieve data by using all date functions.

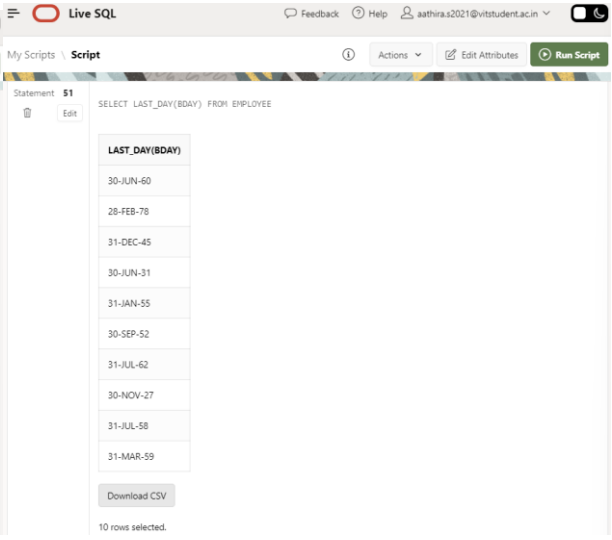


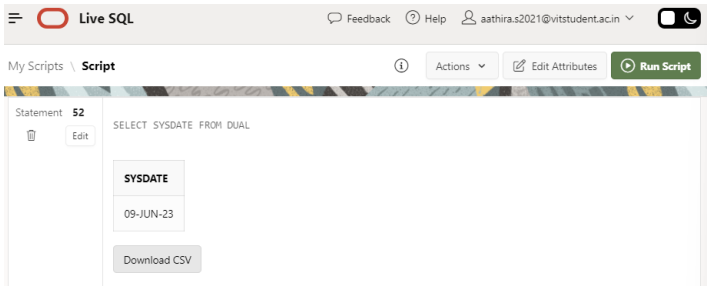




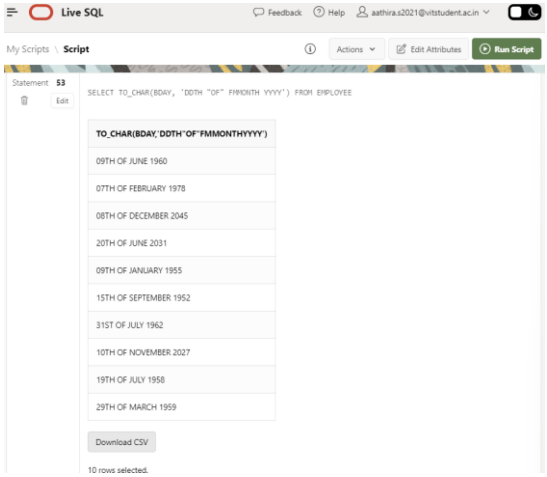


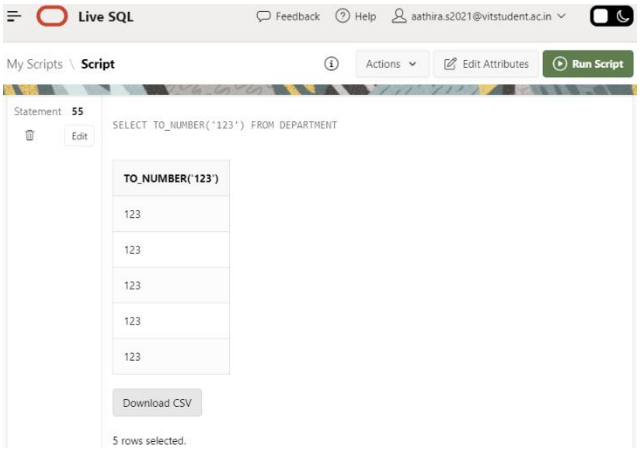


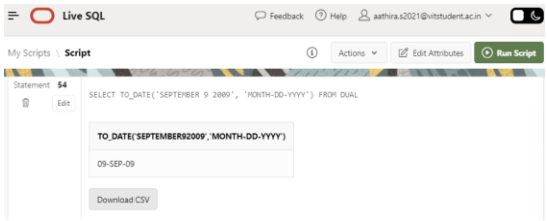




4. Apply SQL queries to retrieve data by using all conversion functions.





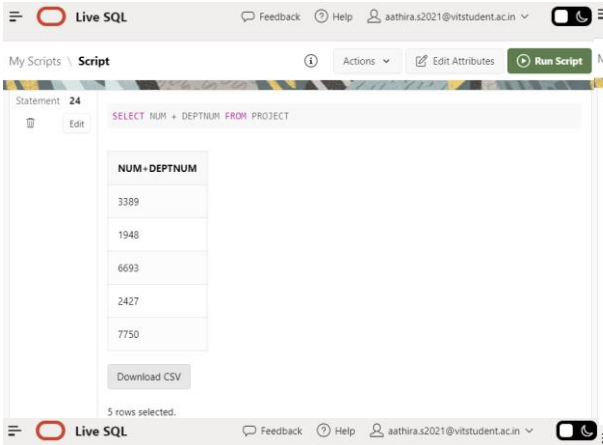


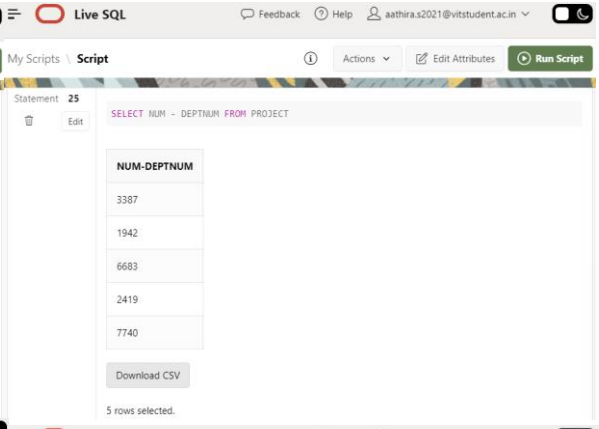
Exercise 4

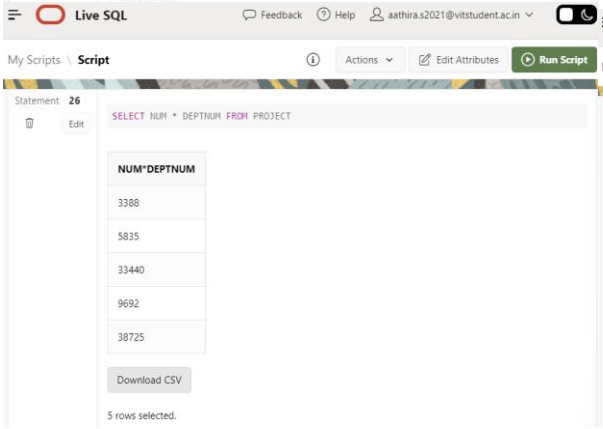
Aim: To understand different operators and group functions in SQL

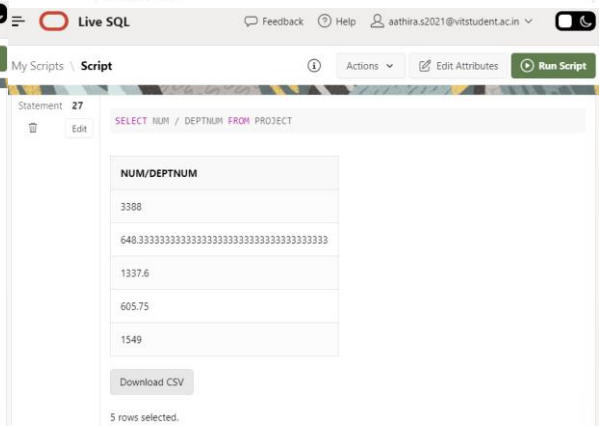
1. Apply SQL queries to retrieve data by using all arithmetic, logical, set and comparative operators

```
-- arithmetic operators
```

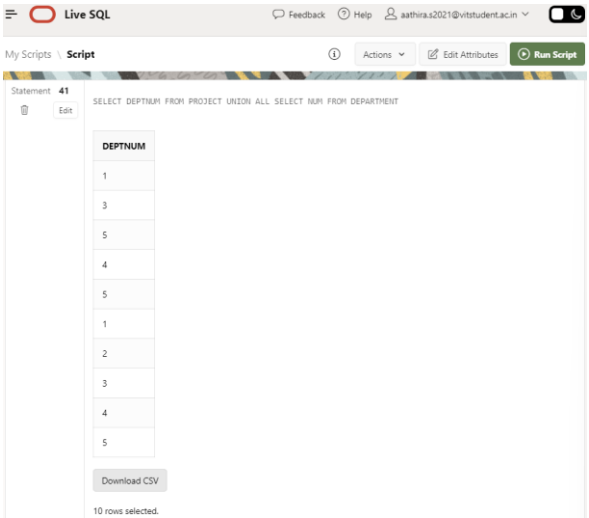


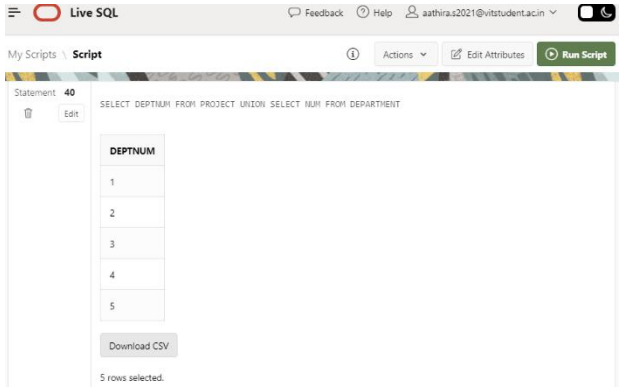


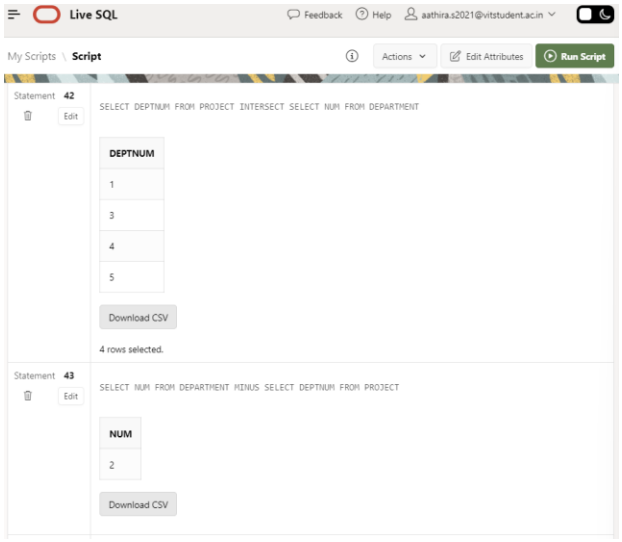




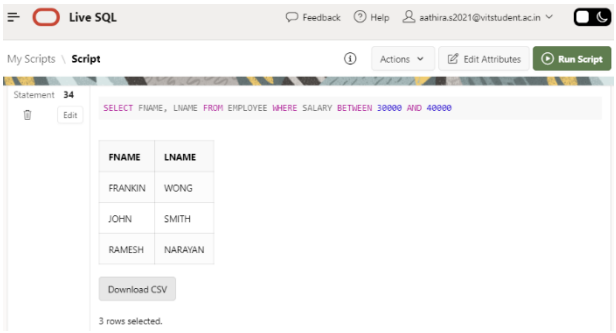

```
-- set operators
```

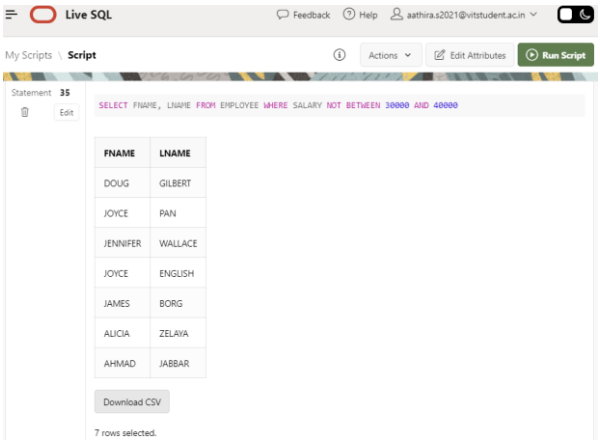


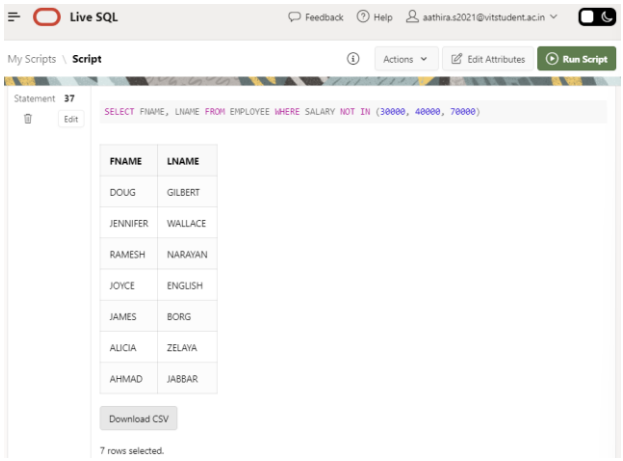





```
-- logical operators
```







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-- Comparative operator
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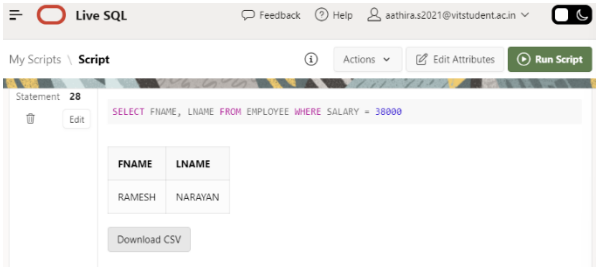
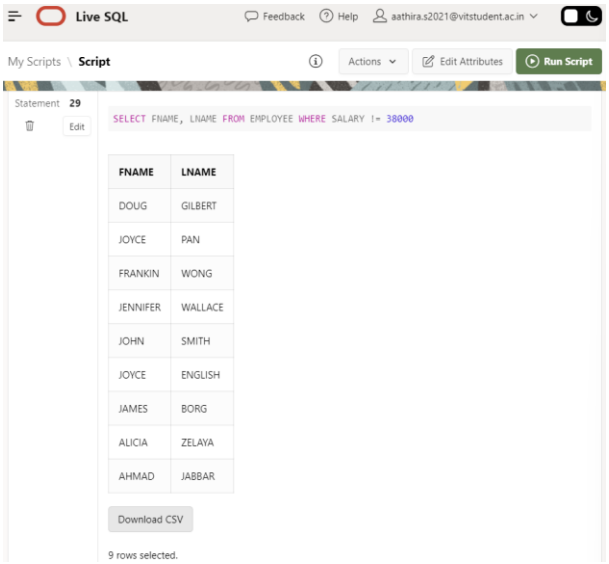
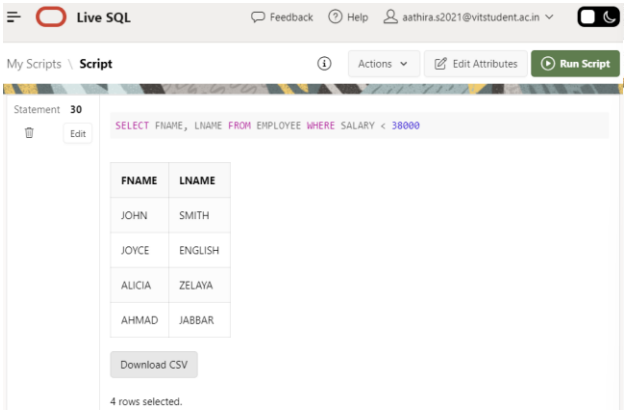
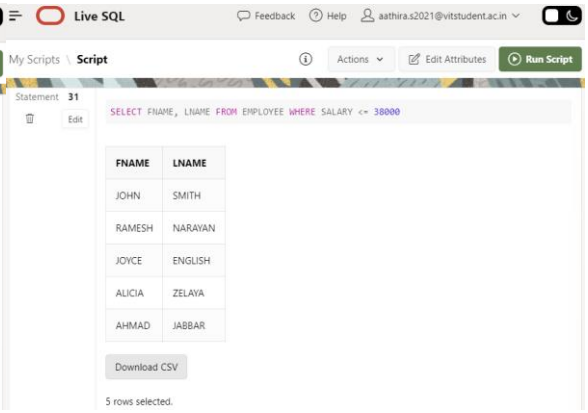
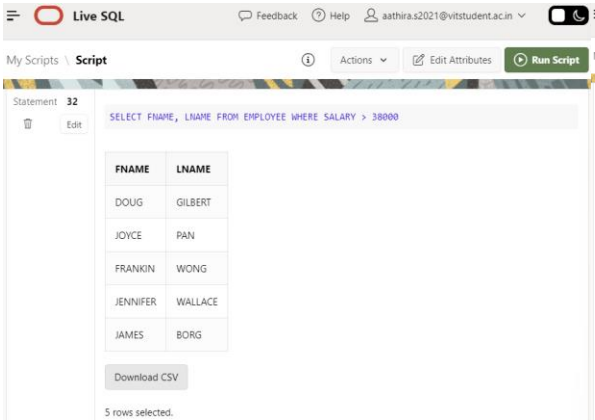
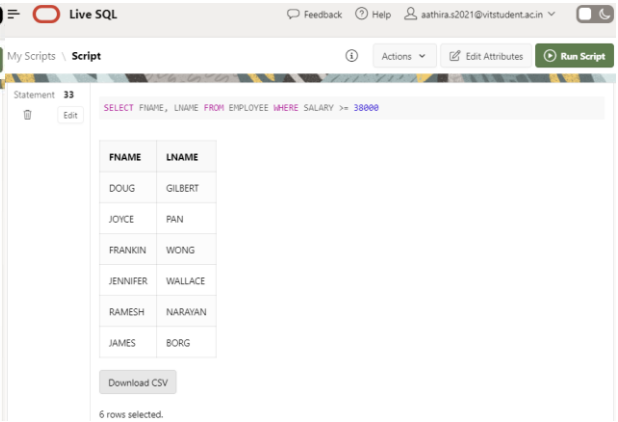


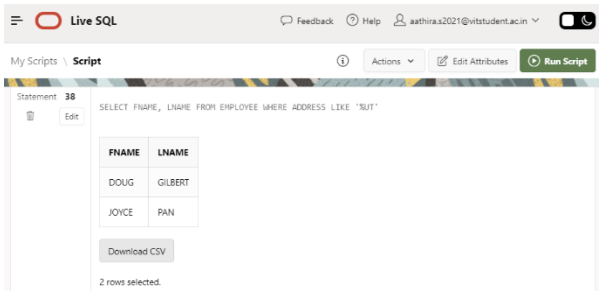


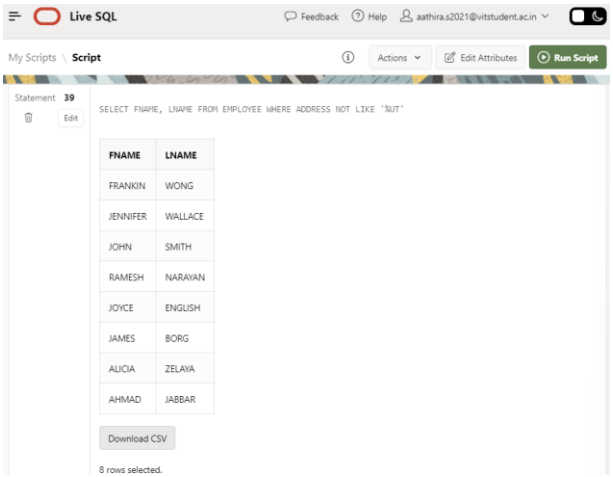




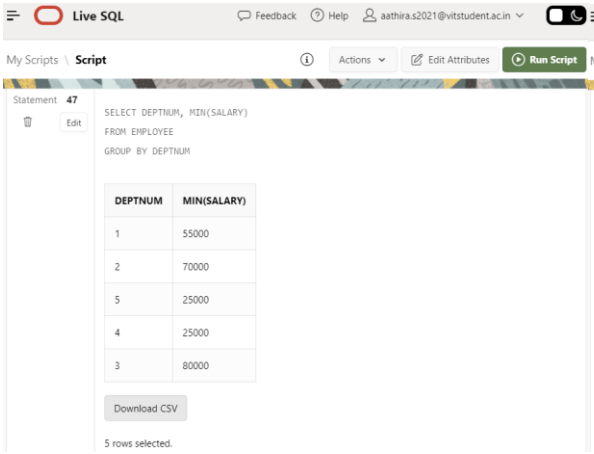


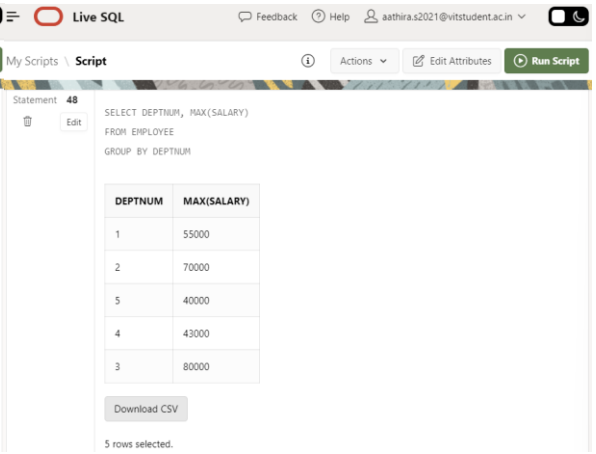


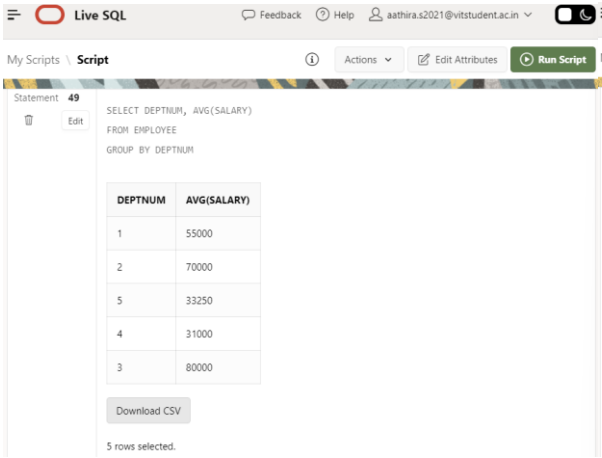

Live SQL
Feedback
Help
aathira.s2021@vitstudent.ac.in
My Scripts
Script
Actions
Edit Attributes
Run Script
Statement 38
Edit
SELECT FNAME, LNAME FROM EMPLOYEE WHERE ADDRESS LIKE '%UT'
FNAME
LNAME
DOUG
GILBERT
JOYCE
PAN
Download CSV
2 rows selected.

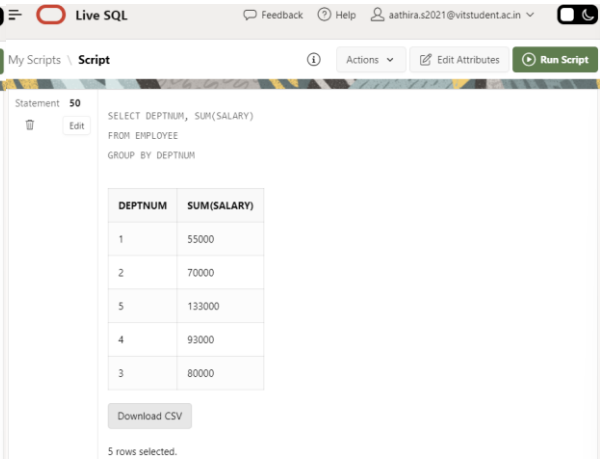

Live SQL
Feedback
Help
aathira.s2021@vitstudent.ac.in
My Scripts
Script
Actions
Edit Attributes
Run Script
Statement 39
Edit
SELECT FNAME, LNAME FROM EMPLOYEE WHERE ADDRESS NOT LIKE '%UT'
FNAME
LNAME
FRANKIN
WONG
JENNIFER
WALLACE
JOHN
SMITH
RAMESH
NARAYAN
JOYCE
ENGLISH
JAMES
BORG
ALICIA
ZELAYA
AHMAD
JABBAR
Download CSV
8 rows selected.

2. Apply SQL queries to retrieve data by using all aggregate functions.









3. Apply SQL queries to retrieve data by using all aggregate functions and applying a condition over the aggregate function.