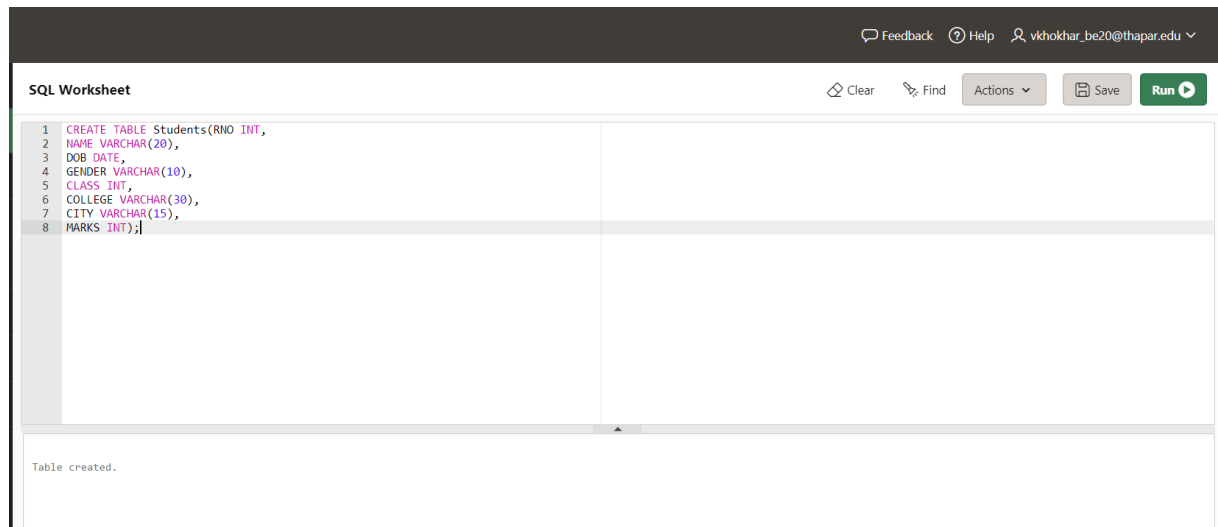


## Lab Assignment-1

1. Create table Student (Rno, Name, DOB, Gender, Class, College, City, Marks)

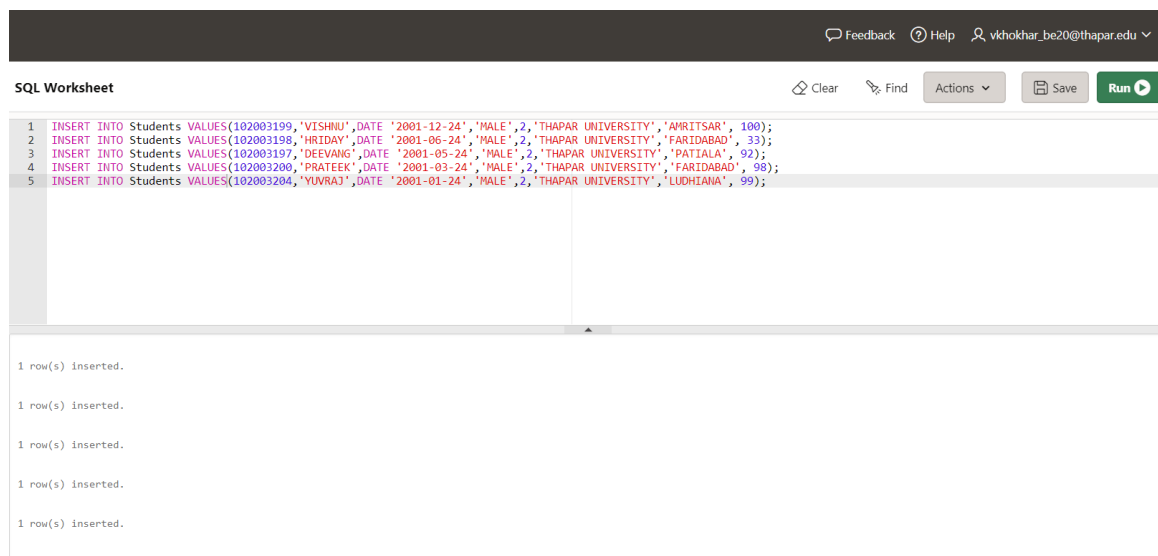


The screenshot shows an SQL Worksheet interface with a dark header bar containing 'Feedback', 'Help', and a user profile 'vkhokhar\_be20@thapar.edu'. Below the header, the worksheet title 'SQL Worksheet' is on the left, and 'Clear', 'Find', 'Actions', 'Save', and 'Run' buttons are on the right. The main area contains SQL code for creating a table named 'Students' with columns: RNO (INT), NAME (VARCHAR(20)), DOB (DATE), GENDER (VARCHAR(10)), CLASS (INT), COLLEGE (VARCHAR(30)), CITY (VARCHAR(15)), and MARKS (INT). The code is as follows:

```
1 CREATE TABLE Students(RNO INT,  
2 NAME VARCHAR(20),  
3 DOB DATE,  
4 GENDER VARCHAR(10),  
5 CLASS INT,  
6 COLLEGE VARCHAR(30),  
7 CITY VARCHAR(15),  
8 MARKS INT);
```

Below the code editor, a message states 'Table created.'

2. Insert 5 records in student table



The screenshot shows the same SQL Worksheet interface. The code editor now contains five INSERT statements to add records to the 'Students' table. The code is as follows:

```
1 INSERT INTO Students VALUES(102003199,'VISHNU',DATE '2001-12-24','MALE',2,'THAPAR UNIVERSITY','AMRITSAR',100);  
2 INSERT INTO Students VALUES(102003198,'HRIDAY',DATE '2001-06-24','MALE',2,'THAPAR UNIVERSITY','FARIDABAD',33);  
3 INSERT INTO Students VALUES(102003197,'DEEVAANG',DATE '2001-05-24','MALE',2,'THAPAR UNIVERSITY','PATIALA',92);  
4 INSERT INTO Students VALUES(102003200,'PRATEEK',DATE '2001-03-24','MALE',2,'THAPAR UNIVERSITY','FARIDABAD',98);  
5 INSERT INTO Students VALUES(102003204,'YUVRAJ',DATE '2001-01-24','MALE',2,'THAPAR UNIVERSITY','LUDHIANA',99);
```

Below the code editor, the execution results are shown as five separate lines, each stating '1 row(s) inserted.'

### 3. Display the information of all the students

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SQL Worksheet [Clear](#) [Find](#) [Actions](#) [Save](#) [Run](#)

1 `SELECT * FROM Students;`

RNO	NAME	DOB	GENDER	CLASS	COLLEGE	CITY	MARKS
102003199	VISHNU	24-DEC-01	MALE	2	THAPAR UNIVERSITY	AMRITSAR	100
102003198	HRIDAY	24-JUN-01	MALE	2	THAPAR UNIVERSITY	FARIDABAD	33
102003197	DEEVANG	24-MAY-01	MALE	2	THAPAR UNIVERSITY	PATIALA	92
102003200	PRATEEK	24-MAR-01	MALE	2	THAPAR UNIVERSITY	FARIDABAD	98
102003204	YUVRAJ	24-JAN-01	MALE	2	THAPAR UNIVERSITY	LUDHIANA	99

[Download CSV](#)  
5 rows selected.

### 4. Display the detail structure of student table

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QL Worksheet [Clear](#) [Find](#) [Actions](#) [Save](#) [Run](#)

1 `DESC Students;`

Column	Null?	Type
RNO	-	NUMBER
NAME	-	VARCHAR2(20)
DOB	-	DATE
GENDER	-	VARCHAR2(10)
CLASS	-	NUMBER
COLLEGE	-	VARCHAR2(30)
CITY	-	VARCHAR2(15)
MARKS	-	NUMBER

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### 5. Display Rno, Name and Class information of 'Patiala' students.

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SQL Worksheet [Clear](#) [Find](#) [Actions](#) [Save](#) [Run](#)

1 `SELECT RNO, NAME, CLASS`  
2 `FROM Students`  
3 `WHERE CITY='PATIALA';`

RNO	NAME	CLASS
102003197	DEEVANG	2

[Download CSV](#)

## 6. Display information on ascending order of marks

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SQL Worksheet Clear Find Actions Save Run

```
1 SELECT *
2 FROM Students
3 ORDER BY MARKS
```

RNO	NAME	DOB	GENDER	CLASS	COLLEGE	CITY	MARKS
102003198	HRIDAY	24-JUN-01	MALE	2	THAPAR UNIVERSITY	FARIDABAD	33
102003197	DEEVANG	24-MAY-01	MALE	2	THAPAR UNIVERSITY	PATIALA	92
102003200	PRATEEK	24-MAR-01	MALE	2	THAPAR UNIVERSITY	FARIDABAD	98
102003204	YUVRAJ	24-JAN-01	MALE	2	THAPAR UNIVERSITY	LUDHIANA	99
102003199	VISHNU	24-DEC-01	MALE	2	THAPAR UNIVERSITY	AMRITSAR	100

Download CSV  
5 rows selected.

## 7. Change the marks of Rno 5 to 89.

## 8. Change the name and city of Rno 9.

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SQL Worksheet Clear Find Actions Save Run

```
1 UPDATE Students
2 SET NAME='JUNEJA', CITY='BATHINDA'
3 WHERE RNO='102003198';
```

1 row(s) updated.

## 9. Delete the information of 'Amritsar' city records

Feedback Help vkhokhar\_be20@thapar.edu

SQL Worksheet Clear Find Actions Save Run

```
1 DELETE FROM Students
2 WHERE CITY='AMRITSAR';
```

1 row(s) deleted.

## 10. Delete the records of student where marks&lt;40.

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SQL Worksheet Clear Find Actions Save Run

```
1 DELETE FROM Students
2 WHERE MARKS < 40;
```

1 row(s) deleted.

## Database Management System

## Lab Assignment-2

1. Create table emp which has the following attributes (employee table)  
(empno, ename, job, sal, deptno)

The screenshot shows the Oracle SQL Developer interface. At the top, there's a dark header with 'Feedback', 'Help', and a user profile 'vkhokhar\_be20@thapar.edu'. Below the header, the breadcrumb 'My Session \ Previous Sessions \ Previous Session' is visible. To the right of the breadcrumb are buttons for 'Delete', 'Re-Run', and 'Save this Session'. Below the breadcrumb, there's a list of sessions: 'Created 4 weeks ago by vkhokhar\_be20@thapar.edu' and 'Status Temporarily Archived, this script will be automatically deleted'. Below this, there are dropdowns for 'Sort' (set to 'most recent last') and 'View' (set to 'Statements and Results'). The main area shows 'Statement 1' with the SQL code: 

```
CREATE TABLE EMP(  
  EMPNO NUMBER,  
  ENAME VARCHAR2(20),  
  JOB VARCHAR2(20),  
  SAL NUMBER,  
  DEPTNO NUMBER  
)
```

 Below the code, it says 'Table created.'

2. Insert appropriate records in above tables.

The screenshot shows the Oracle SQL Developer interface with five statements executed. Each statement is followed by a confirmation message: '1 row(s) inserted.' The statements are:   
Statement 1: 

```
INSERT INTO EMP VALUES(1,'HONEY SINGH', 'DIRECTOR', 3700, 10)
```

  
Statement 5: 

```
INSERT INTO EMP VALUES(2,'DRAKE', 'SALESPERSON', 2700, 20)
```

  
Statement 6: 

```
INSERT INTO EMP VALUES(3,'SHAKIRA', 'CLERK', 1700, 30)
```

  
Statement 7: 

```
INSERT INTO EMP VALUES(4,'SALMAN KHAN', 'MODEL', 4700, 40)
```

  
Statement 8: 

```
INSERT INTO EMP VALUES(5,'PUSHPARAJ', 'HR', 9700, 50)
```

3. Get employee no and employee name who works in dept no 10

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My Session \ Previous Sessions \ **Previous Session** Delete Re-Run Save this Session

Statement 8

```
INSERT INTO EMP VALUES(5,'PUSHPARAJ','HR',9700,50)
```

1 row(s) inserted.

Statement 9

```
SELECT EMPNO,ENAME FROM EMP WHERE DEPTNO='10'
```

EMPNO	ENAME
1	HONEY SINGH

#### 4. Display the employee names of those clerks whose salary > 2000

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My Session \ Previous Sessions \ **Previous Session** Delete Re-Run Save this Session

1 row(s) updated.

Statement 11

```
SELECT ENAME FROM EMP WHERE JOB='CLERK' AND SAL>2000
```

ENAME
HONEY SINGH

#### 5. Display name and sal of Salesperson & Clerks

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My Session \ Previous Sessions \ **Previous Session** Delete Re-Run Save this Session

Statement 12

```
SELECT ENAME,SAL FROM EMP WHERE JOB='SALESPERSON' OR JOB='CLERK'
```

ENAME	SAL
DRAKE	2700
SHAKIRA	1700
HONEY SINGH	3700

3 rows selected.

## 6. Display all details of employees whose salary between 2000 and 3000

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My Session \ Previous Sessions \ **Previous Session** Delete Re-Run Save this Session

HONEY SINGH 3700

3 rows selected.

Statement 13

SELECT \* FROM EMP WHERE SAL>2000 AND SAL<3000

EMPNO	ENAME	JOB	SAL	DEPTNO
2	DRAKE	SALESPERSON	2700	20

## 7. Display all details of employees whose dept no is 10, 20, or 30

Statement 14

SELECT \* FROM EMP WHERE DEPTNO='10' OR DEPTNO='20' OR DEPTNO='30'

EMPNO	ENAME	JOB	SAL	DEPTNO
2	DRAKE	SALESPERSON	2700	20
3	SHAKIRA	CLERK	1700	30
1	HONEY SINGH	CLERK	3700	10

3 rows selected.

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## 8. Display dept no & salary in ascending order of dept no and with in each dept no salary should be in descending order

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My Session \ Previous Sessions \ **Previous Session** Delete Re-Run Save this Session

Statement 18

SELECT DEPTNO,SAL FROM EMP ORDER BY DEPTNO ASC, SAL DESC

DEPTNO	SAL
10	3700
20	2700
30	1700
40	4700
50	9700

5 rows selected.

## 9. Display name of employees that starts with 'C'

The screenshot shows a web-based SQL interface. At the top, there's a dark header with 'Feedback', 'Help', and a user profile 'vkhokhar\_be20@thapar.edu'. Below the header, a navigation bar shows 'My Session \ Previous Sessions \ Previous Session' with buttons for 'Delete', 'Re-Run', and 'Save this Session'. The main area displays 'Statement 19' with the SQL query: `SELECT ENAME FROM EMP WHERE ENAME LIKE 'C%'`. Below the query, the result is 'no data found'.

## 10. Display name of employees that ends with 'C'

The screenshot shows the same SQL interface. The navigation bar is the same. The main area displays 'Statement 20' with the SQL query: `SELECT ENAME FROM EMP WHERE ENAME LIKE '%C'`. Below the query, the result is 'no data found'.

11.

## 12. Display name of employees having two 'a' or 'A' chars in the name

The screenshot shows the same SQL interface. The navigation bar is the same. The main area displays 'Statement 22' with the SQL query: `SELECT ENAME FROM EMP WHERE ENAME LIKE '%A%A' OR ENAME LIKE '%a%a'`. Below the query, the result is a table with two rows: 'ENAME' and 'SHAKIRA'.

## 13. Display the name of the employees whose second char is 'b' or 'B'



Feedback Help vkriokha\_dezo@mapal.edu

My Session \ Previous Sessions \ **Previous Session** Delete Re-Run Save this Session

SHAKILKA

Statement 23

```
SELECT ENAME FROM EMP  
WHERE ENAME LIKE '_B%'
```

no data found

14. Display the name of the employees whose first or last char is 'a' or 'A'

SHAKILKA

Statement 25

```
SELECT ENAME FROM EMP  
WHERE ENAME LIKE 'A%' OR ENAME LIKE '%a'
```

no data found

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