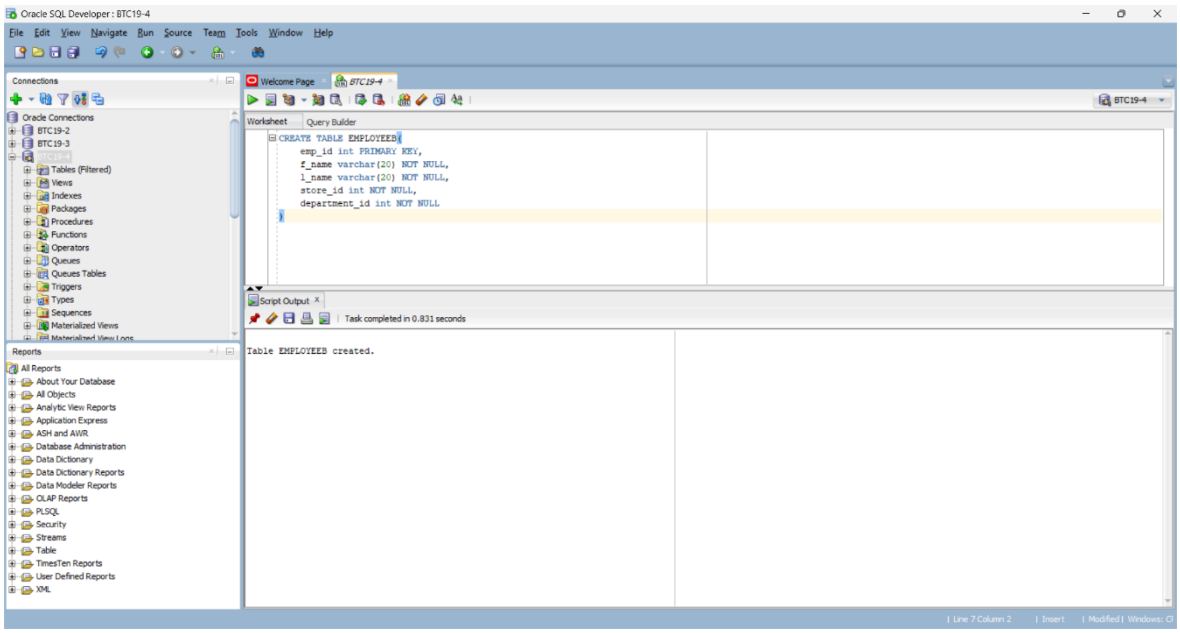
EXPERIMENT 4

Name:- Omkar Kore **Class**: Btech C

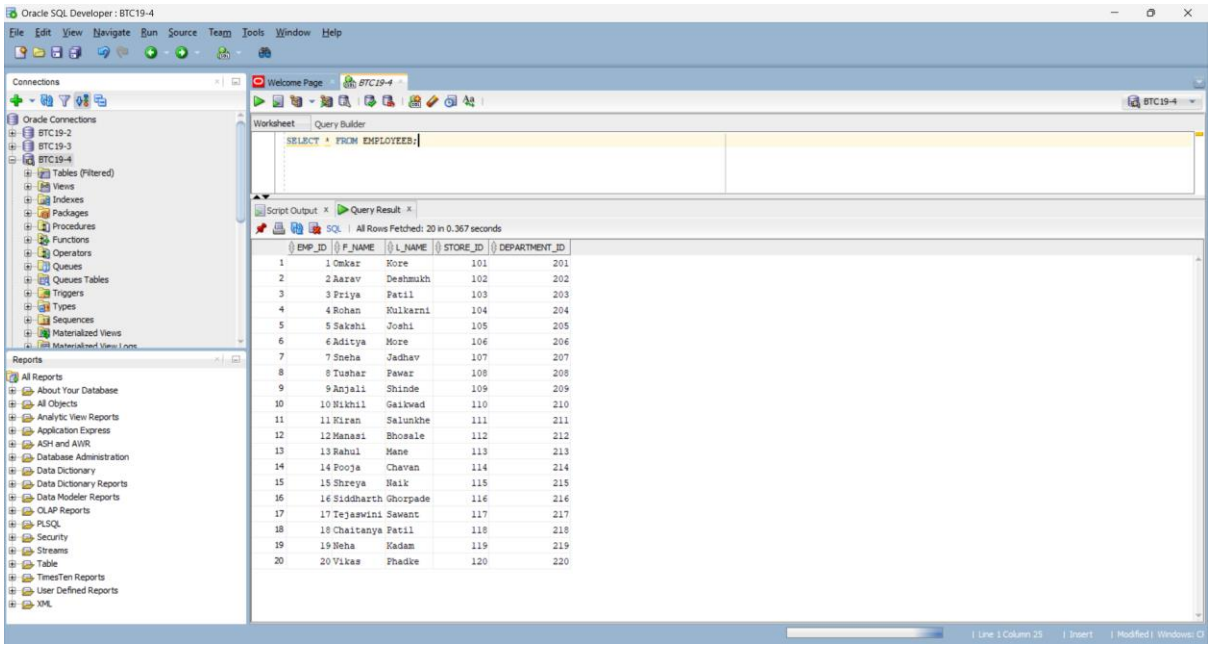
Roll Number:- BTC19 **Batch**: C1

PART A]RANGE PARTITIONING:

```
CREATE TABLE EMPLOYEEB(
    emp_id int PRIMARY KEY,
    f_name varchar(20) NOT NULL,
    l_name varchar(20) NOT NULL,
    store_id int NOT NULL,
    department_id int NOT NULL
)
PARTITION BY RANGE (emp_id) (
    PARTITION P0 VALUES LESS THAN (5),
    PARTITION P1 VALUES LESS THAN (10),
    PARTITION P2 VALUES LESS THAN (15),
    PARTITION P3 VALUES LESS THAN (25)
);
```

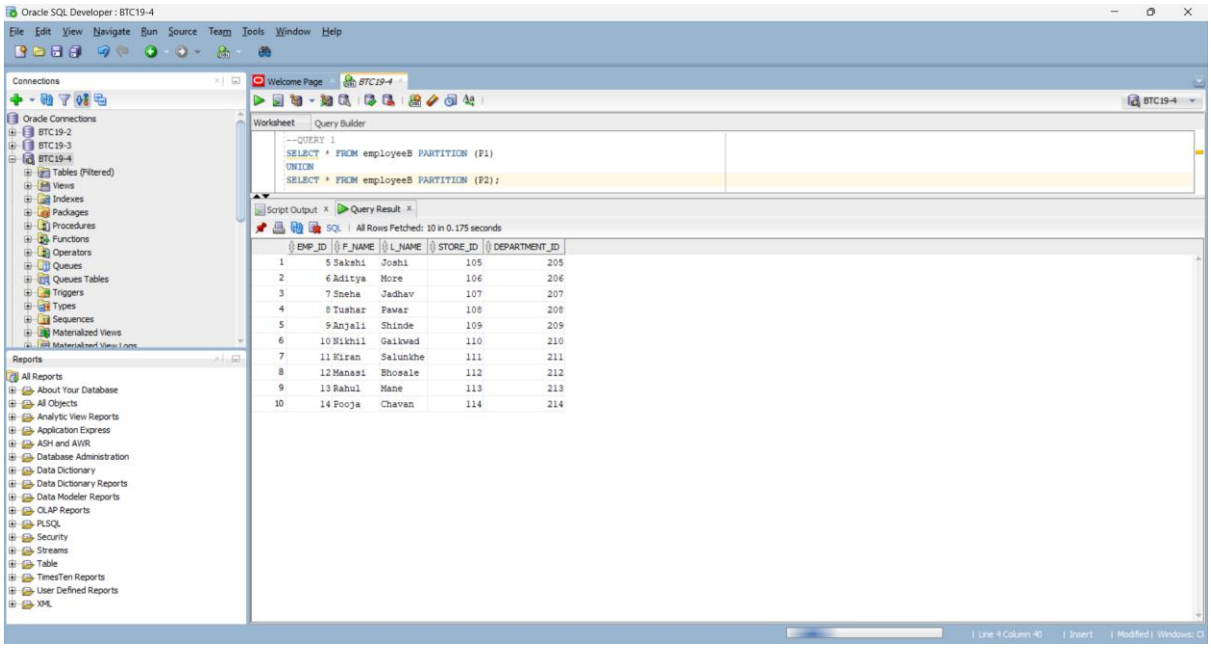


```
INSERT INTO EMPLOYEEB VALUES (1, 'Omkar', 'Kore', 101, 201);
INSERT INTO EMPLOYEEB VALUES (2, 'Aarav', 'Deshmukh', 102, 202);
INSERT INTO EMPLOYEEB VALUES (3, 'Priya', 'Patil', 103, 203);
INSERT INTO EMPLOYEEB VALUES (4, 'Rohan', 'Kulkarni', 104, 204);
INSERT INTO EMPLOYEEB VALUES (5, 'Sakshi', 'Joshi', 105, 205);
INSERT INTO EMPLOYEEB VALUES (6, 'Aditya', 'More', 106, 206);
INSERT INTO EMPLOYEEB VALUES (7, 'Sneha', 'Jadhav', 107, 207);
INSERT INTO EMPLOYEEB VALUES (8, 'Tushar', 'Pawar', 108, 208);
INSERT INTO EMPLOYEEB VALUES (9, 'Anjali', 'Shinde', 109, 209);
INSERT INTO EMPLOYEEB VALUES (10, 'Nikhil', 'Gaikwad', 110, 210);
INSERT INTO EMPLOYEEB VALUES (11, 'Kiran', 'Salunkhe', 111, 211);
INSERT INTO EMPLOYEEB VALUES (12, 'Manasi', 'Bhosale', 112, 212);
INSERT INTO EMPLOYEEB VALUES (13, 'Rahul', 'Mane', 113, 213);
INSERT INTO EMPLOYEEB VALUES (14, 'Pooja', 'Chavan', 114, 214);
INSERT INTO EMPLOYEEB VALUES (15, 'Shreya', 'Naik', 115, 215);
INSERT INTO EMPLOYEEB VALUES (16, 'Siddharth', 'Ghorpade', 116, 216);
INSERT INTO EMPLOYEEB VALUES (17, 'Tejaswini', 'Sawant', 117, 217);
INSERT INTO EMPLOYEEB VALUES (18, 'Chaitanya', 'Patil', 118, 218);
INSERT INTO EMPLOYEEB VALUES (19, 'Neha', 'Kadam', 119, 219);
INSERT INTO EMPLOYEEB VALUES (20, 'Vikas', 'Phadke', 120, 220);

SELECT * FROM EMPLOYEEB;
```



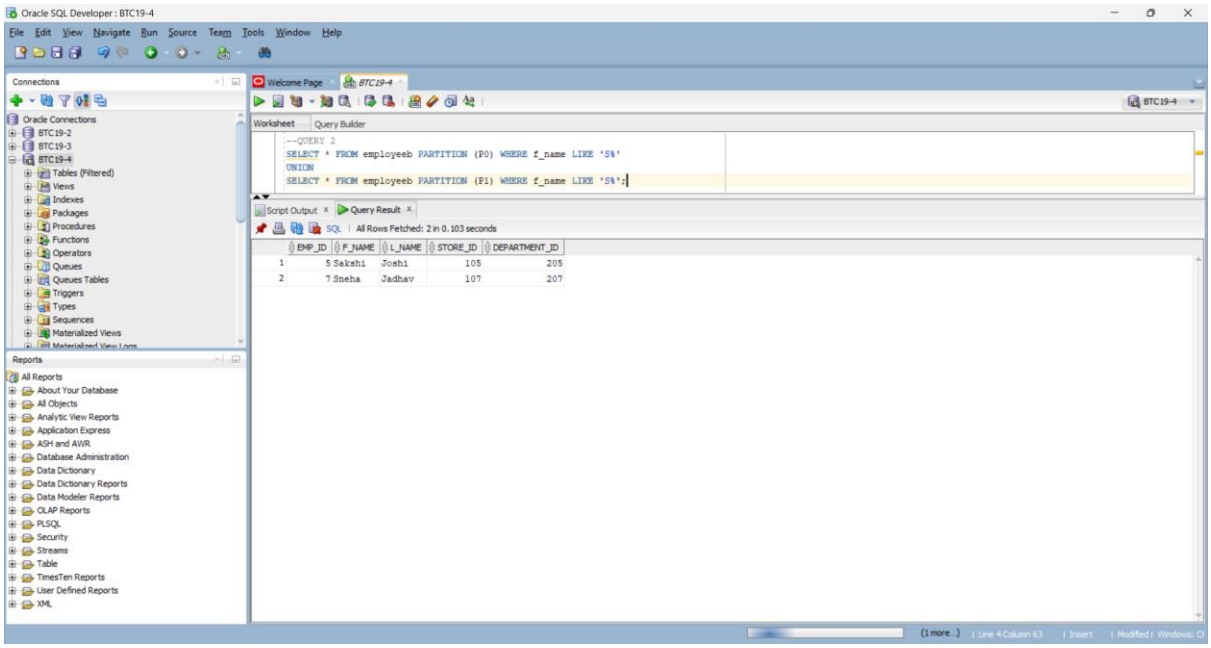
--QUERY 1

```
SELECT * FROM employeeB PARTITION (P1)

UNION

SELECT * FROM employeeB PARTITION (P2);
```



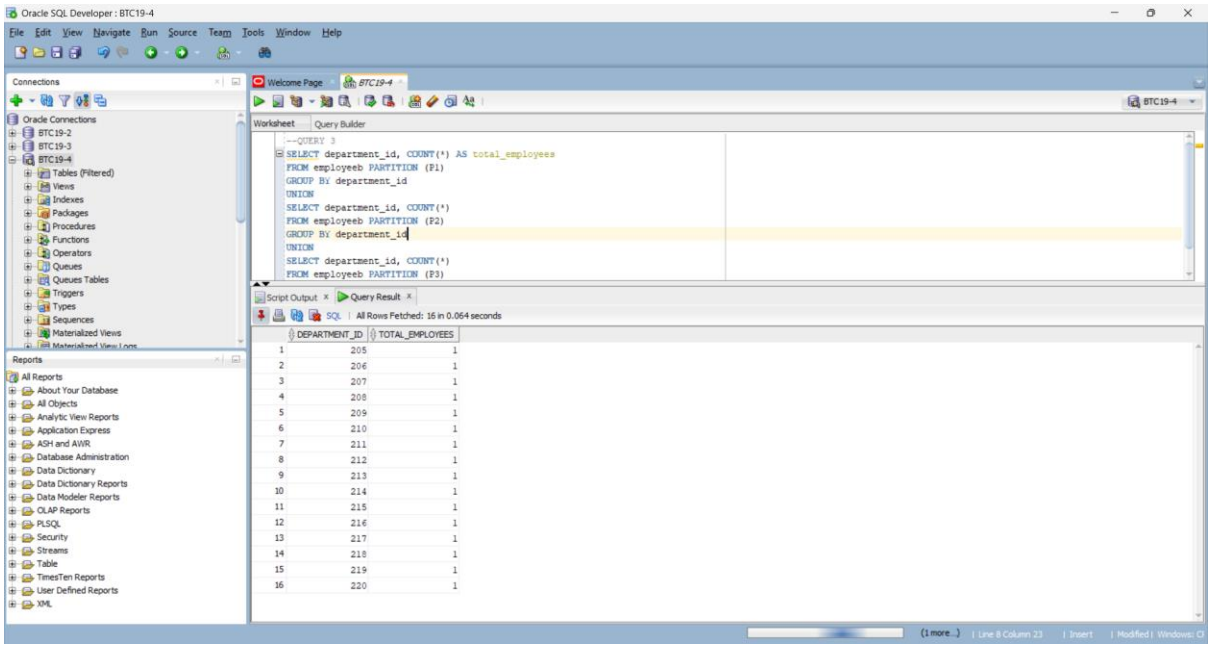
--QUERY 2

```
SELECT * FROM employeeb PARTITION (P0) WHERE f_name LIKE 'S%'

UNION

SELECT * FROM employeeb PARTITION (P1) WHERE f_name LIKE 'S%';
```



--QUERY 3

```
SELECT department_id, COUNT(*) AS total_employees
FROM employeeb PARTITION (P1)
GROUP BY department_id
UNION
SELECT department_id, COUNT(*)
FROM employeeb PARTITION (P2)
GROUP BY department_id
UNION
SELECT department_id, COUNT(*)
FROM employeeb PARTITION (P3)
GROUP BY department_id;
```



--PART B(HASH PARTITIONING)

```
CREATE TABLE sales_hash (
    salesman_id NUMBER(5) PRIMARY KEY,
    salesman_name VARCHAR2(30),
    sales_amount NUMBER(10),
    week_no NUMBER(2)
)
PARTITION BY HASH (salesman_id) (
    PARTITION sales_p1,
    PARTITION sales_p2,
    PARTITION sales_p3,
    PARTITION sales_p4
);
INSERT INTO sales_hash VALUES (1, 'Omkar', 50000, 1);
INSERT INTO sales_hash VALUES (2, 'Aarav', 45000, 2);
INSERT INTO sales_hash VALUES (3, 'Sneha', 55000, 3);
INSERT INTO sales_hash VALUES (4, 'Rohan', 47000, 4);
INSERT INTO sales_hash VALUES (5, 'Pooja', 60000, 5);
```

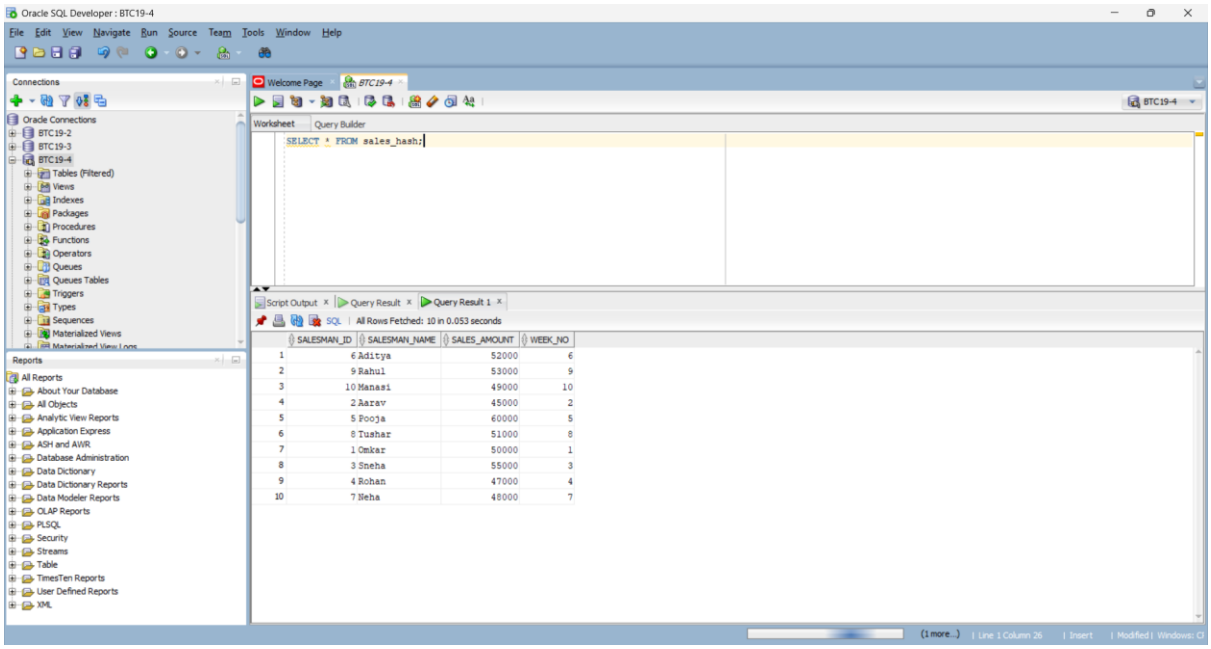
INSERT INTO sales_hash VALUES (6, 'Aditya', 52000, 6);

INSERT INTO sales_hash VALUES (7, 'Neha', 48000, 7);

INSERT INTO sales_hash VALUES (8, 'Tushar', 51000, 8);

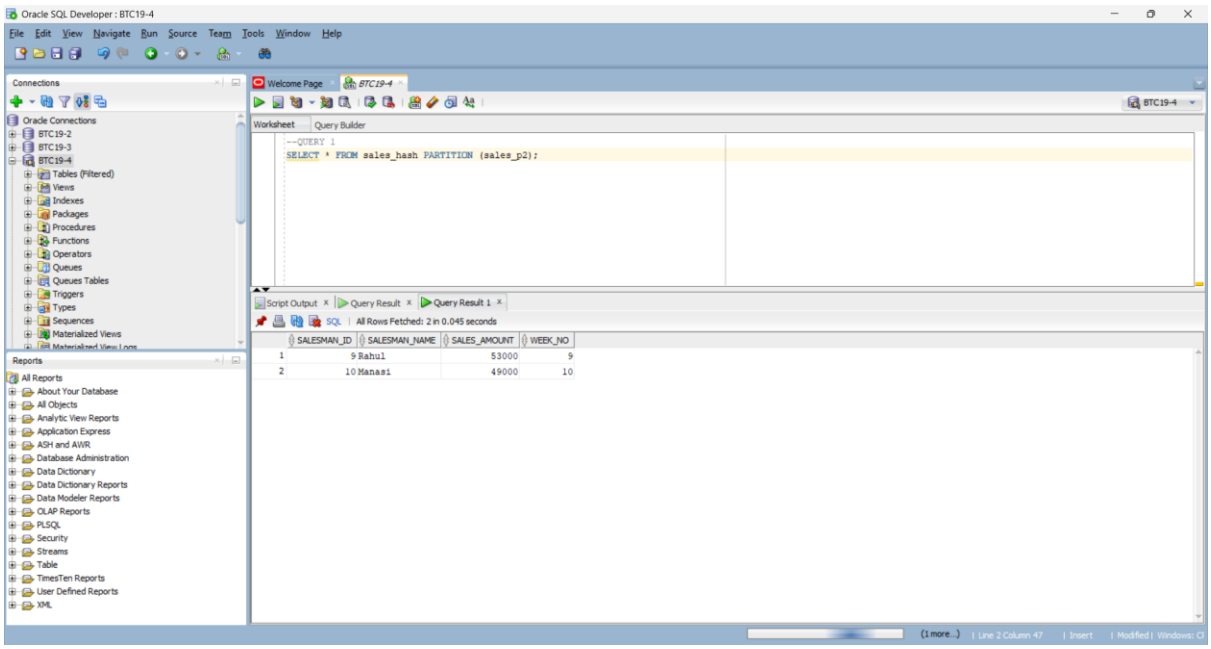
INSERT INTO sales_hash VALUES (9, 'Rahul', 53000, 9);

INSERT INTO sales_hash VALUES (10, 'Manasi', 49000, 10);



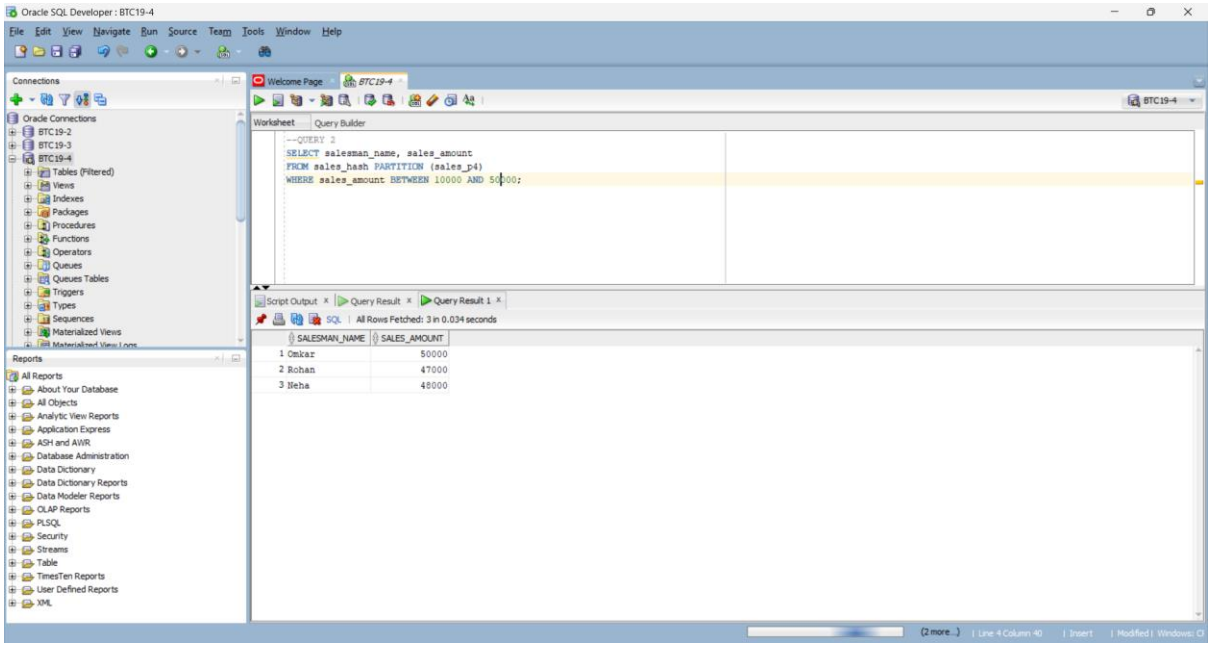
--QUERY 1

SELECT * FROM sales_hash PARTITION (sales_p2);



--*QUERY 2*

```
SELECT salesman_name, sales_amount
FROM sales_hash PARTITION (sales_p4)
WHERE sales_amount BETWEEN 10000 AND 50000;
```



--*QUERY 3*

```
SELECT week_no, AVG(sales_amount) AS avg_sales
FROM sales_hash PARTITION (sales_p3)
GROUP BY week_no;
```