

EXPERIMENT 4

Name:- Omkar Kore

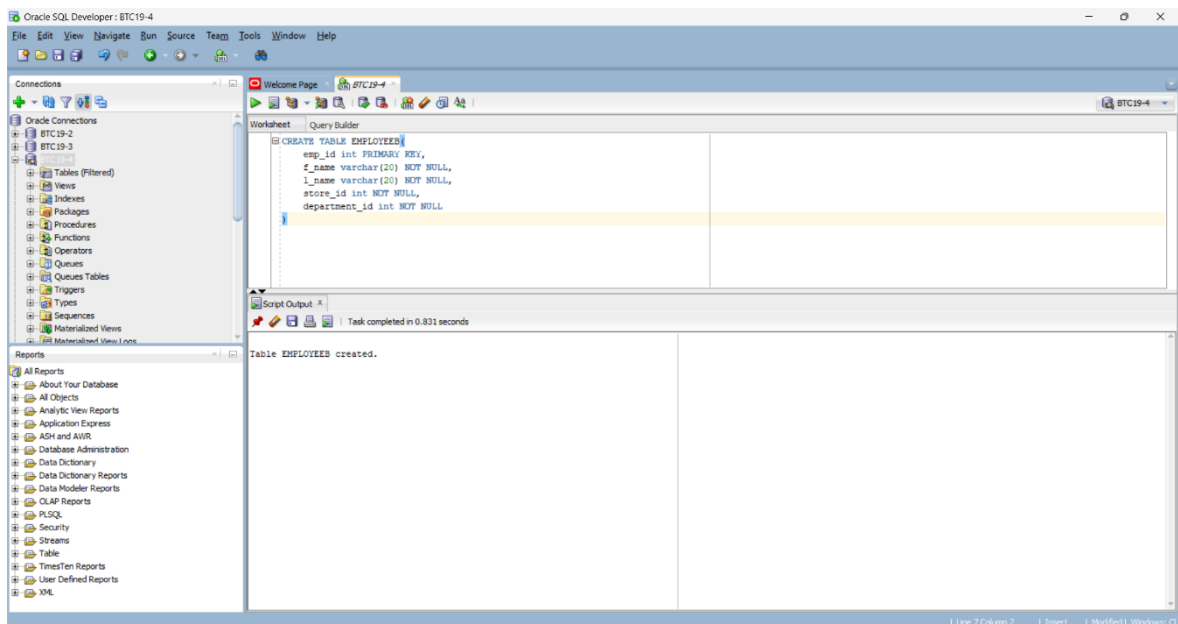
Class: Btech C

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

```
SELECT * FROM EMPLOYEE;
```

Oracle SQL Developer: BTC19-4

Connections: BTC19-2, BTC19-3, BTC19-4

Tables (Filtered): Views, Packages, Procedures, Functions, Operators, Queues, Queues Tables, Triggers, Types, Sequences, Materialized Views

Reports: All Reports, About Your Database, All Objects, Analytic View Reports, Application Express, ASH and AWR, Database Administration, Data Dictionary, Data Dictionary Reports, Data Modeler Reports, OLAP Reports, PLSQL, Security, Streams, Table, TimesTen Reports, User Defined Reports, XML

Worksheet: Query Builder

Script Output: All Rows Fetched: 20 in 0.367 seconds

EMP_ID	F_NAME	L_NAME	STORE_ID	DEPARTMENT_ID
1	Omkar	Rore	101	201
2	Aarav	Deshmukh	102	202
3	Priya	Patil	103	203
4	Rohan	Mulkarni	104	204
5	Sakshi	Joishi	105	205
6	Aditya	More	106	206
7	Sheha	Jadhav	107	207
8	Tushar	Pawar	108	208
9	Anjali	Shinde	109	209
10	Nikhil	Gaikwad	110	210
11	Kiran	Salunkhe	111	211
12	Manasi	Bhosale	112	212
13	Rahul	Mane	113	213
14	Pooja	Chavan	114	214
15	Shreya	Haik	115	215
16	Siddharth	Ghorpade	116	216
17	Tejaswini	Sawant	117	217
18	Chaitanya	Patil	118	218
19	Meha	Kadam	119	219
20	Vikas	Phadke	120	220

--QUERY 1

SELECT * FROM employeeB PARTITION (P1)

UNION

SELECT * FROM employeeB PARTITION (P2);

Oracle SQL Developer: BTC19-4

Connections: BTC19-2, BTC19-3, BTC19-4

Tables (Filtered): Views, Packages, Procedures, Functions, Operators, Queues, Queues Tables, Triggers, Types, Sequences, Materialized Views

Reports: All Reports, About Your Database, All Objects, Analytic View Reports, Application Express, ASH and AWR, Database Administration, Data Dictionary, Data Dictionary Reports, Data Modeler Reports, OLAP Reports, PLSQL, Security, Streams, Table, TimesTen Reports, User Defined Reports, XML

Worksheet: Query Builder

Script Output: All Rows Fetched: 10 in 0.175 seconds

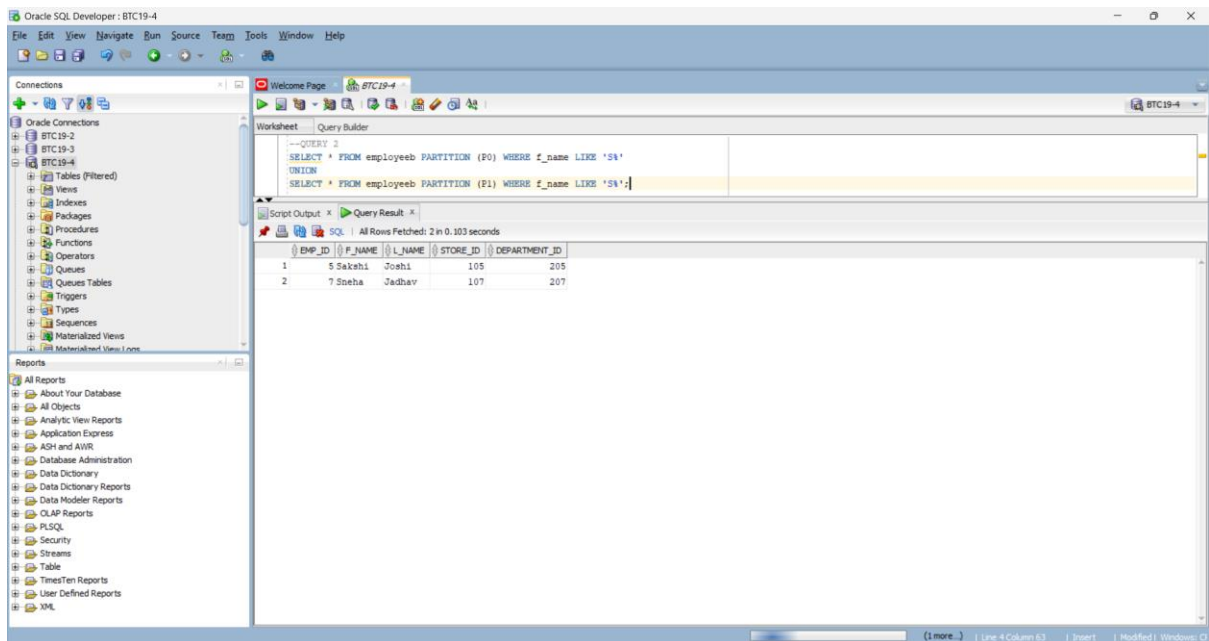
EMP_ID	F_NAME	L_NAME	STORE_ID	DEPARTMENT_ID
1	Sakshi	Joishi	105	205
2	Aditya	More	106	206
3	Sheha	Jadhav	107	207
4	Tushar	Pawar	108	208
5	Anjali	Shinde	109	209
6	Nikhil	Gaikwad	110	210
7	Kiran	Salunkhe	111	211
8	Manasi	Bhosale	112	212
9	Rahul	Mane	113	213
10	Pooja	Chavan	114	214

--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)

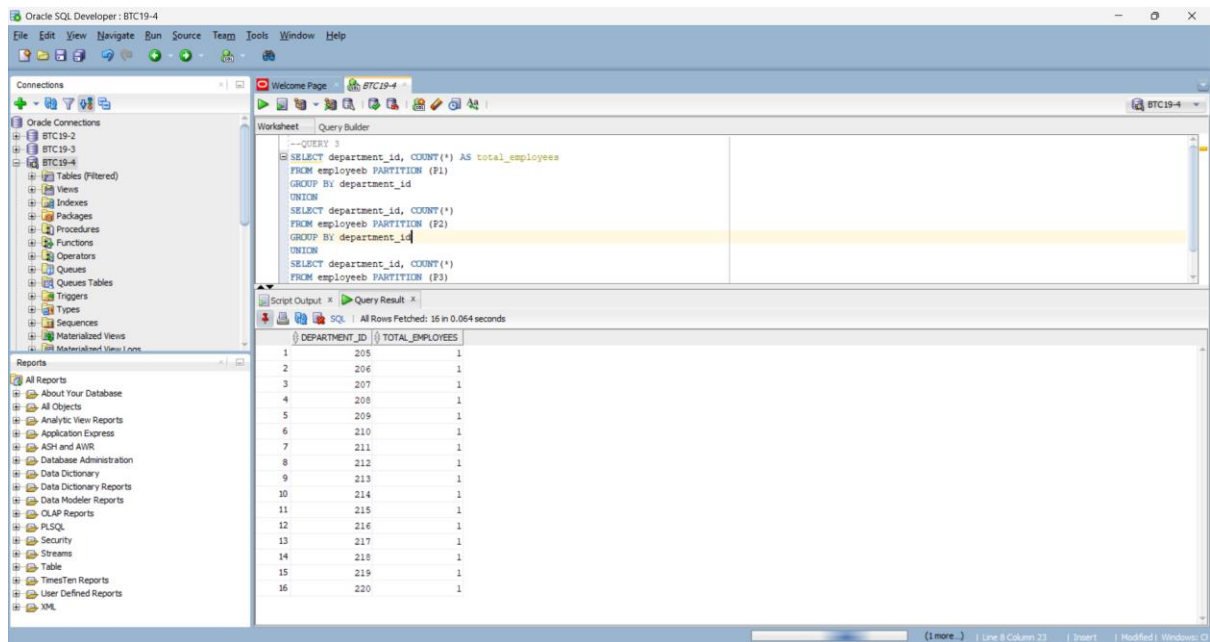
GROUP BY department_id

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);

```

The screenshot shows the Oracle SQL Developer interface. The 'Connections' pane on the left lists 'BTC19-4' as the active connection. The 'Worksheet' pane displays the query 'SELECT * FROM sales_hash;'. The 'Query Result' pane shows 10 rows of data.

Salesman_ID	Salesman_Name	Sales_Amount	Week_No
6	Aditya	52000	6
9	Rahul	53000	9
10	Manasi	49000	10
2	Aarav	45000	2
5	Pooja	60000	5
8	Tushar	51000	8
1	Omkar	50000	1
3	Sneha	55000	3
4	Rohan	47000	4
7	Neha	48000	7

--QUERY 1

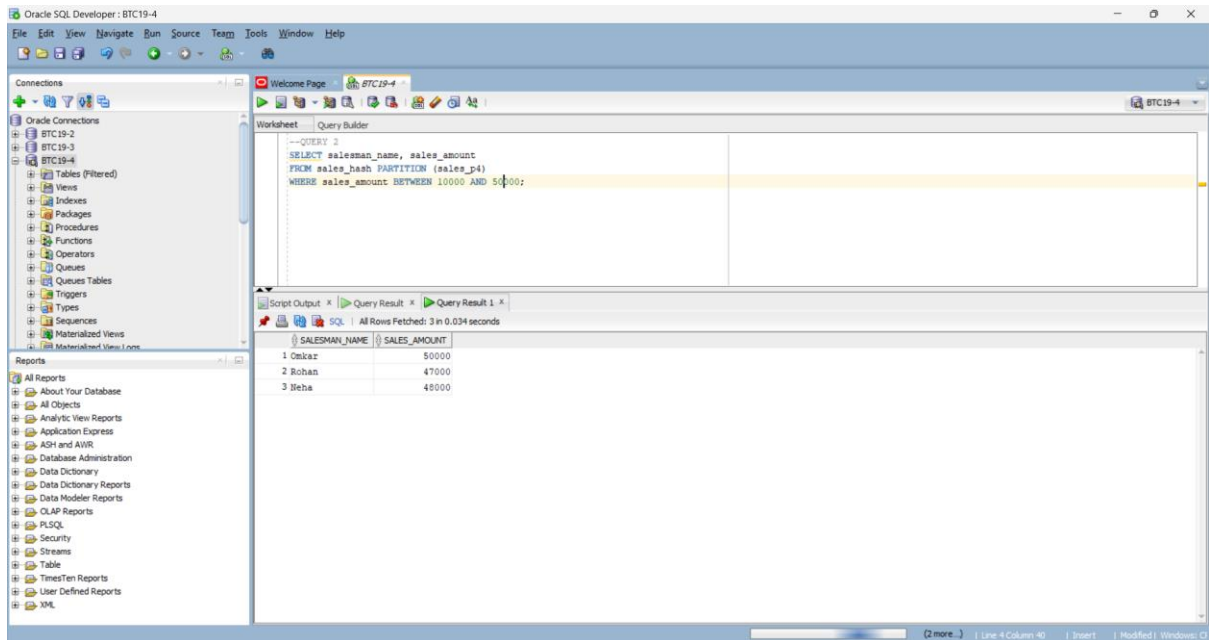
```
SELECT * FROM sales_hash PARTITION (sales_p2);
```

The screenshot shows the Oracle SQL Developer interface. The 'Connections' pane on the left lists 'BTC19-4' as the active connection. The 'Worksheet' pane displays the query 'SELECT * FROM sales_hash PARTITION (sales_p2);'. The 'Query Result' pane shows 2 rows of data.

Salesman_ID	Salesman_Name	Sales_Amount	Week_No
9	Rahul	53000	9
10	Manasi	49000	10

--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;
```

