B27

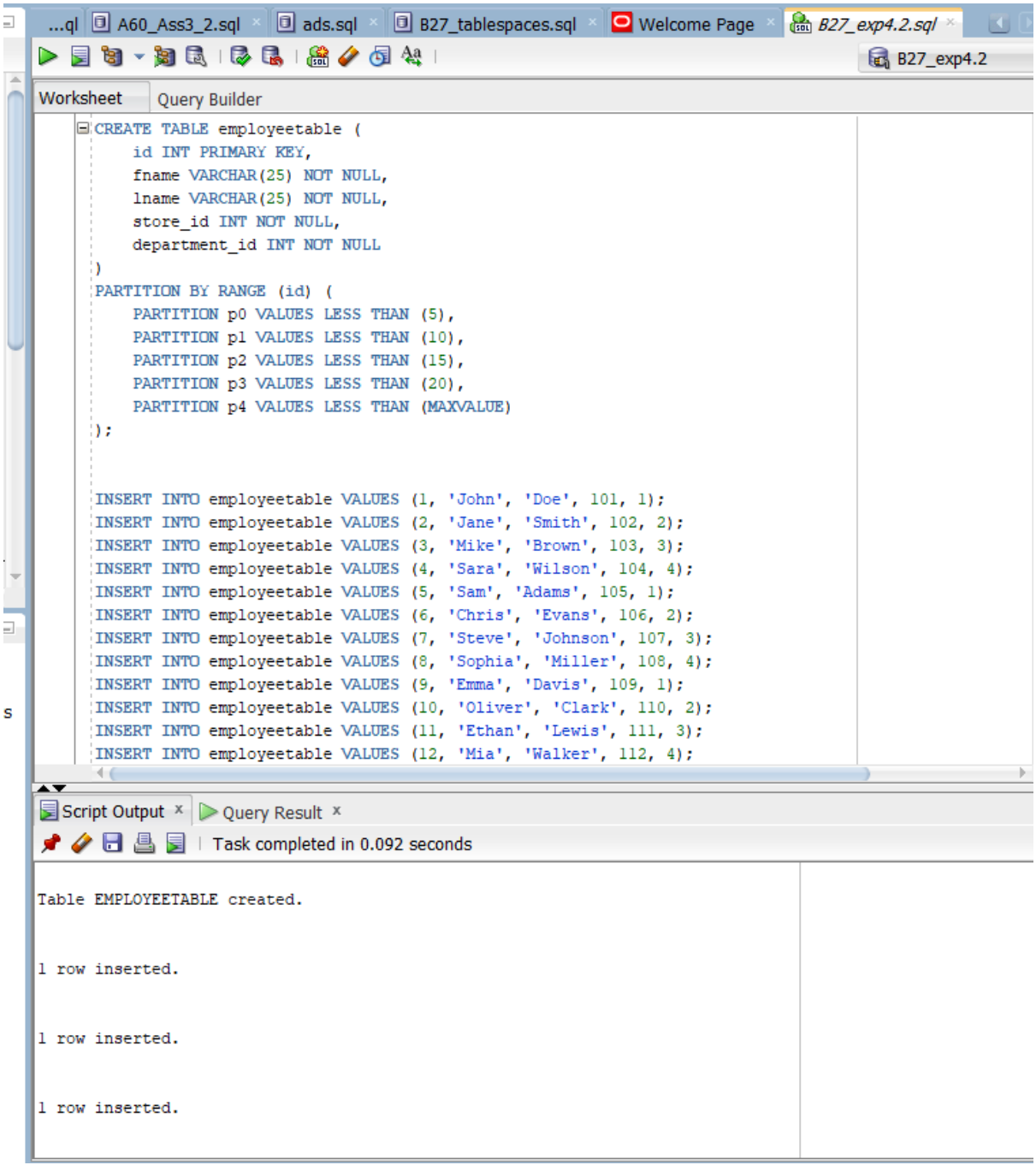
Name: Prachi Mahavir Patil.

PRN: 2122000442

EXPERIMENT NO. 05

---

1. Range Partitioning:



Worksheet | Query Builder

```
<--Q.1-->
SELECT *
FROM employeetable
WHERE id BETWEEN 5 AND 14;

<--Q.2-->
SELECT *
FROM employeetable
WHERE id < 10
AND fname LIKE 'S%';

<--Q.3-->
SELECT department_id, COUNT(*) AS employee_count
FROM employeetable
WHERE id BETWEEN 5 AND 19
GROUP BY department_id;

<--to check partitioning-->
```

Script Output | Query Result

SQL | All Rows Fetched: 10 in 0.011 seconds

	ID	FNAME	LNAME	STORE_ID	DEPARTMENT_ID
1	5	Sam	Adams	105	1
2	6	Chris	Evans	106	2
3	7	Steve	Johnson	107	3
4	8	Sophia	Miller	108	4
5	9	Emma	Davis	109	1
6	10	Oliver	Clark	110	2
7	11	Ethan	Lewis	111	3
8	12	Mia	Walker	112	4
9	13	Lucas	Hall	113	1
10	14	Mason	Young	114	2

```
<--Q.2-->
SELECT *
FROM employeetable
WHERE id < 10
AND fname LIKE 'S%';

<--Q.3-->
SELECT department_id, COUNT(*) AS employee_count
FROM employeetable
WHERE id BETWEEN 5 AND 19
GROUP BY department_id;

<--to check partitioning-->
```

Script Output | Query Result

SQL | All Rows Fetched: 4 in 0.007 seconds

	ID	FNAME	LNAME	STORE_ID	DEPARTMENT_ID
1	4	Sara	Wilson	104	4
2	5	Sam	Adams	105	1
3	7	Steve	Johnson	107	3
4	8	Sophia	Miller	108	4

```
<--Q.3-->
SELECT department_id, COUNT(*) AS employee_count
FROM employeetable
WHERE id BETWEEN 5 AND 19
GROUP BY department_id;

<--to check partitioning-->
SELECT table_name, partitioning_type
FROM user_part_tables
WHERE table_name = 'EMPLOYEETABLE';
```

Script Output | Query Result

SQL | All Rows Fetched: 4 in 0.006 seconds

	DEPARTMENT_ID	EMPLOYEE_COUNT
1	1	4
2	2	4
3	3	4
4	4	3

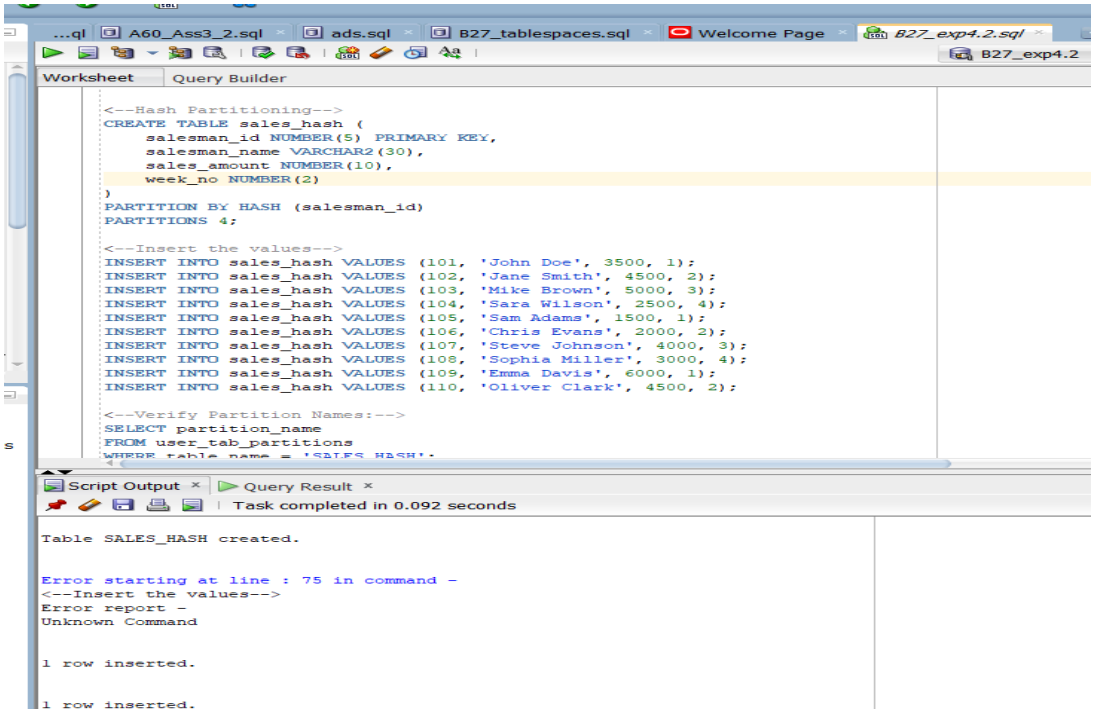
```
<--to check partitioning-->
SELECT table_name, partitioning_type
FROM user_part_tables
WHERE table_name = 'EMPLOYEETABLE';

SELECT partition_name, high_value, tablespace_name
FROM user_tab_partitions
WHERE table_name = 'EMPLOYEETABLE';


<--Hash Partitioning-->
CREATE TABLE sales_hash (
    salesman_id NUMBER(5) PRIMARY KEY,
```

Script Output | Query Result

SQL | All Rows Fetched: 1 in 0.007 seconds

	TABLE_NAME	PARTITIONING_TYPE
1	EMPLOYEETABLE	RANGE

2. Hash Partitioning:




```
<--Verify Partition Names:-->
SELECT partition_name
FROM user_tab_partitions
WHERE table_name = 'SALES_HASH';

<--Q.1  Retrieve sales details from the 2nd partition-->
SELECT *
FROM sales_hash PARTITION (SYS_P453);

<--Q.2 Retrieve names of salesmen and sales amounts from the 4th partition wh
SELECT salesman_name, sales_amount
FROM sales_hash PARTITION (SYS_P455)
WHERE sales_amount BETWEEN 2000 AND 5000;

<--Q.3 Find the average sales amount per week from the 3rd partition
SELECT week_no, AVG(sales_amount) AS avg_sales
FROM sales_hash PARTITION (SYS_P454)
GROUP BY week_no;
```

Script Output | Query Result

SQL | All Rows Fetched: 4 in 0.048 seconds

	PARTITION_NAME
1	SYS_P452
2	SYS_P453
3	SYS_P454
4	SYS_P455

```
<--Q.1  Retrieve sales details from the 2nd partition-->
SELECT *
FROM sales_hash PARTITION (SYS_P453);

<--Q.2 Retrieve names of salesmen and sales amounts from the 4th partition where sa
SELECT salesman_name, sales_amount
FROM sales_hash PARTITION (SYS_P455)
WHERE sales_amount BETWEEN 2000 AND 5000;

<--Q.3 Find the average sales amount per week from the 3rd partition
SELECT week_no, AVG(sales_amount) AS avg_sales
FROM sales_hash PARTITION (SYS_P454)
GROUP BY week_no;
```

Script Output × Query Result ×

SQL | All Rows Fetched: 2 in 0.008 seconds

	SALESMAN_ID	SALESMAN_NAME	SALES_AMOUNT	WEEK_NO
1	104	Sara Wilson	2500	4
2	110	Oliver Clark	4500	2

```
<--Q.2 Retrieve names of salesmen and sales amounts from the 4th partition where sale amount i
SELECT salesman_name, sales_amount
FROM sales_hash PARTITION (SYS_P455)
WHERE sales_amount BETWEEN 2000 AND 5000;

<--Q.3 Find the average sales amount per week from the 3rd partition
SELECT week_no, AVG(sales_amount) AS avg_sales
FROM sales_hash PARTITION (SYS_P454)
GROUP BY week_no;
```

Script Output × Query Result ×

SQL | All Rows Fetched: 2 in 0.005 seconds

	SALESMAN_NAME	SALES_AMOUNT
1	John Doe	3500
2	Chris Evans	2000

```
<--Q.3 Find the average sales amount per week from the 3rd partition
SELECT week_no, AVG(sales_amount) AS avg_sales
FROM sales_hash PARTITION (SYS_P454)
GROUP BY week_no;
```

Script Output × Query Result ×

SQL | All Rows Fetched: 3 in 0.005 seconds

	WEEK_NO	AVG_SALES
1	2	4500
2	3	4500
3	1	3750