Roll No: B38

Subject : ADS

PRN: 2122000604

--Range Partition: create table Emp (

## **Assignment 4.2**

```
id int primary key, fname varchar(25) not
null, Iname varchar(25) not null,
store_id int not null, department_id int
not null) partition by range (id) (
partition p0 values less than (5),
partition p1 values less than (10),
partition p2 values less than (15),
partition p3 values less than (20),
partition p4 values less than (maxvalue)
);
insert into Emp (id, fname, Iname, store_id, department_id) values (1, 'john', 'doe', 1, 101); insert
into Emp (id, fname, lname, store_id, department_id) values (2, 'jane', 'smith', 1, 102); insert into
Emp (id, fname, lname, store_id, department_id) values (3, 'paul', 'adams', 2, 103); insert into
Emp (id, fname, lname, store_id, department_id) values (4, 'sophie', 'lee', 2, 101); insert into Emp
(id, fname, Iname, store_id, department_id) values (5, 'sam', 'jackson', 3, 102); insert into Emp (id,
fname, Iname, store_id, department_id) values (6, 'sara', 'connor', 3, 101); insert into Emp (id,
fname, Iname, store_id, department_id) values (7, 'mike', 'jordan', 4, 103); insert into Emp (id,
fname, Iname, store_id, department_id) values (8, 'chris', 'taylor', 4, 102); insert into Emp (id, fname,
Iname, store_id, department_id) values (9, 'susan', 'brown', 5, 101); insert into Emp (id, fname,
Iname, store_id, department_id) values (10, 'tom', 'hardy', 5, 103); insert into Emp (id, fname,
Iname, store_id, department_id) values (11, 'emma', 'watson', 6, 102); insert into Emp (id, fname,
Iname, store_id, department_id) values (12, 'sophia', 'clark', 6, 101); insert into Emp (id, fname,
Iname, store id, department id) values (13, 'ben', 'affleck', 7, 102); insert into Emp (id, fname,
```

Iname, store\_id, department\_id) values (14, 'robert', 'downey', 7, 103); insert into Emp (id, fname, Iname, store\_id, department\_id) values (15, 'anna', 'williams', 8, 101); insert into Emp (id, fname, Iname, store\_id, department\_id) values (16, 'steve', 'johnson', 8, 102); insert into Emp (id, fname, Iname, store\_id, department\_id) values (17, 'rachel', 'green', 9, 103); insert into Emp (id, fname, Iname, store\_id, department\_id) values (18, 'phoebe', 'buffay', 9, 101); insert into Emp (id, fname, Iname, store\_id, department\_id) values (19, 'ross', 'geller', 10, 102); insert into Emp (id, fname, lname, store\_id, department\_id) values (20, 'monica', 'geller', 10, 101);

# --1. Retrieve employee details from partition P1 and P2. select \* from

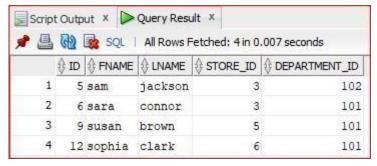
Script Output X Ouery Result X

Emp partition(p1) union select \* from Emp partition(p2);

	∯ ID		↓ LNAME		
1	5	sam	jackson	3	102
2	6	sara	connor	3	101
3	7	mike	jordan	4	103
4	8	chris	taylor	4	102
5	9	susan	brown	5	101
6	10	tom	hardy	5	103
7	11	emma	watson	6	102
8	12	sophia	clark	6	101
9	13	ben	affleck	7	102
10	14	robert	downey	7	103

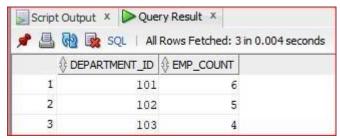
### -- 2. Retrieve employee details from partition P0 and P1 where fname begin with 'S'.

select \* from Emp partition(p1) where fname like 's%' union select \* from Emp partition(p2) where fname like 's%';



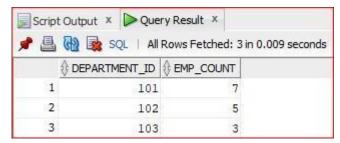
--3. Count number of employees from each department from p1, p2 and p3. select department\_id, count(\*) as Emp count from

(select \* from Emp minus select \* from Emp partition(p1)) group by department\_id;



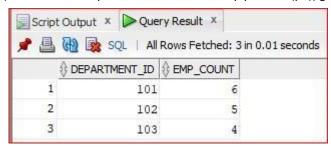
select department\_id, count(\*) as Emp\_count from

(select \* from Emp minus select \* from Emp partition(p2)) group by department\_id;



select department\_id, count(\*) as Emp\_count from

(select \* from Emp minus select \* from Emp partition(p3)) group by department\_id;



#### -- Hash Partition:

4;

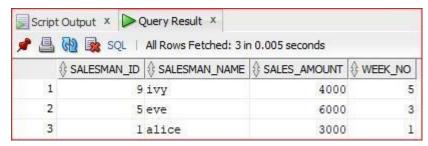
create table sales\_hash ( salesman\_id number(5) primary key, salesman\_name varchar2(30), sales\_amount number(10), week\_no number(2) ) partition by hash (salesman\_id) partitions

insert into sales\_hash (salesman\_id, salesman\_name, sales\_amount, week\_no) values (1, 'alice', 3000, 1); insert into sales\_hash (salesman\_id, salesman\_name, sales\_amount, week\_no) values (2, 'bob', 4500, 1); insert into sales\_hash (salesman\_id, salesman\_name, sales\_amount, week\_no) values (3, 'charlie', 2500, 2); insert into sales\_hash (salesman\_id, salesman\_name, sales\_amount, week\_no) values (4, 'david', 5000, 2); insert into sales\_hash (salesman\_id, salesman\_name, sales\_amount, week\_no) values (5, 'eve', 6000, 3);

insert into sales\_hash (salesman\_id, salesman\_name, sales\_amount, week\_no) values (6, 'frank', 7000, 3); insert into sales\_hash (salesman\_id, salesman\_name, sales\_amount, week\_no) values (7, 'grace', 2000, 4); insert into sales\_hash (salesman\_id, salesman\_name, sales\_amount, week\_no) values (8, 'hank', 1000, 4); insert into sales\_hash (salesman\_id, salesman\_name, sales\_amount, week\_no) values (9, 'ivy', 4000, 5); insert into sales\_hash (salesman\_id, salesman\_name, sales\_amount, week\_no) values (10, 'jack', 5500, 5); select partition name from user tab partitions where table name = 'sales hash';

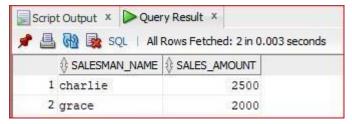
#### --1. Retrieve sales details from 2nd partition. select \* from

sales\_hash where mod(salesman\_id, 4) = 1;



#### --2. Retrieve name of sales mans and amount from 4th partition where sale amount between 2000 and

**5000.** select salesman\_name, sales\_amount from sales\_hash where mod(salesman\_id, 4) = 3 and sales\_amount between 2000 and 5000;



#### --3. Find average sale amount per week from 3rd partition select

week\_no, avg(sales\_amount) as avg\_sales\_amount from sales\_hash
where mod(salesman\_id, 4) = 2 group by week\_no;

