



**Bharati Vidyapeeth's
Institute of Management & Information Technology**

**MCA SEM I
ADBMS LAB
Assignment 1**

Topic: Partitions (Hash, Range and List)

Date:

A) Hash Partition

Q1. Create table Book details with the attribute b_id, title, author, price. Partition this table into 4 partitions using hash partitioning method.

1. Display the contents of the table.
2. Display the contents of each partition
3. Rename the partition p1 to part1.
4. Display the partition names of table book_details.

Q2. Create a table student_details with the attributes Roll_no, names, marks using hash partitioning with 3 partitions.

1. Display the content of the partitions.
2. Delete one partition.
3. Display the name of existing partitions.

B) Range Partition

Q1. Create table student with attributes **stud_id, name, marks** with **range partitioning** and the partitioning attribute is marks.

1. Display contents of the table.
2. Display the details of the students who failed.
3. Display the details of the students of "second class".
4. Display the details of the students of "First class".
5. Display the name of partitions.
6. Display the details of students who passed with distinctions.
7. Display the number of students who failed.
8. Display the details of the student who scored highest marks
9. Split the partition fail to f1 with marks less than 30 and f2 to marks less than 45.
10. Merge f1, f2 into a new partition pp1;
11. Drop the partition dist_class.
12. Add a partition p_new for storing the marks less than 100.

Q2. Create a table purchase with attributes p_id, p_name and p_amt using range partitioning create the following six partitions -

- P1- amount less than 1000,
- P2- amount less than 2000,
- P3- amount less than 3000,
- P4- amount less than 4000,
- P5- amount less than 5000,
- P6- amount less than 10000

1. Display the purchase details having the maximum purchase amount in partition p3.
2. Split the partition p1 into pp1 and pp2 with the amount less than 500 and pp2 greater than 500 to pp2.
3. Merge the partition pp1 and pp2 into a new partition.

Q3. Create a table tax details with attributes dept_no, name, tax_amt, state with three partitions p1, p2 and p3 using the partition attribute tax_amt(range partition) partition p1 for tax < 5000, partition p2 for tax < 10000, p3 for tax < 20000.

1. Display the partition wise data.
2. Display the details if the tax amount is greater than 1000
3. Display the department having maximum tax amount
4. Display the state and department having minimum tax amount
5. Drop existing partition p3
6. Create a new partition p4 to store all the values greater than 10000
7. Split the partition p2 to s1 and s2 at 8000
8. Merge the partitions p1 and s1 into p11.
9. Rename the partition p11 to p1_new.

C) List Partition

Q1. Create a table to store customer details **custid, cname, state** with 4 different partitions for 4 different regions north, south, east and west using the **list partition**.

1. Display data from all the partitions.
2. Split the partition south into s1 with Kerala and tamilnadu and s2 with the remaining data.
3. Display the contents of new partition.
4. Merge the partition back.
5. Modify an existing partition east to add Assam and Manipur.
6. Add new partition Central.
7. Truncate the partition west.
