***Range Partition***

import java.sql.\*;

import java.util.\*;

class RangePartition{

public static void main(String args[]){

Scanner sc= new Scanner(System.in);

System.out.println("Enter table name :");

String tname=sc.nextLine();

System.out.println("Enter Age range:");

int c1 =sc.nextInt();

int c2 =sc.nextInt();

try{

Class.forName("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.getConnection("jdbc:oracle:thin:@DESKTOP-8KR21VC:1521:sqlplus","scott","finalbtech8");

Statement stmt=con.createStatement();

ResultSet r = stmt.executeQuery("drop table rp1");

ResultSet rs = stmt.executeQuery("create table rp1 as select \* from "+tname+" where Age <"+c1);

ResultSet res = stmt.executeQuery("select \* from rp1");

System.out.println("\n\*\*\* STEP1 Result \*\*\*\n");

System.out.println("\nRecordes at Disk 1:\n");

while(res.next())

{

System.out.println(res.getInt(1)+" "+res.getString(2)+" "+res.getInt(3)+" "+res.getString(4)+" "+res.getString(5)+" "+res.getString(6)+" "+res.getInt(7)+" "+res.getInt(8));

}

con.commit();

System.out.println("\nRecords at Disk 2:\n");

ResultSet r1=stmt.executeQuery("drop table rp2");

ResultSet rs1=stmt.executeQuery("create table rp2 as select \* from "+tname+" where Age >= "+c1+" and Age < "+c2);

ResultSet res1=stmt.executeQuery("select \* from rp2");

while(res1.next())

{

System.out.println(res1.getInt(1)+" "+res1.getString(2)+" "+res1.getInt(3)+" "+res1.getString(4)+" "+res1.getString(5)+" "+res1.getString(6)+" "+res1.getInt(7)+" "+res1.getInt(8));

}

con.commit();

System.out.println("\nRecords at Disk 3:\n");

ResultSet r2=stmt.executeQuery("drop table rp3");

ResultSet rs2=stmt.executeQuery("create table rp3 as select \* from "+tname+" where Age>="+c2);

ResultSet res2=stmt.executeQuery("select \* from rp3");

while(res2.next())

{

System.out.println(res2.getInt(1)+" "+res2.getString(2)+" "+res2.getInt(3)+" "+res2.getString(4)+" "+res2.getString(5)+" "+res2.getString(6)+" "+res2.getInt(7)+" "+res2.getInt(8));

}

con.commit();

System.out.println("\n\*\*\* STEP2 Result \*\*\*\n");

ResultSet r3=stmt.executeQuery("drop table rps1");

ResultSet s1 = stmt.executeQuery("create table rps1 as select \* from rp1 order by Age");

ResultSet sort1 = stmt.executeQuery("select \* from rps1");

System.out.println("\nRecords at Disk 1 after Sorting : \n");

while(sort1.next())

{

System.out.println(sort1.getInt(1)+" "+sort1.getString(2)+" "+sort1.getInt(3)+" "+sort1.getString(4)+" "+sort1.getString(5)+" "+sort1.getString(6)+" "+sort1.getInt(7)+" "+sort1.getInt(8));

}

con.commit();

ResultSet r4=stmt.executeQuery("drop table rps2");

ResultSet s2 = stmt.executeQuery("create table rps2 as select \* from rp2 order by Age");

ResultSet sort2 = stmt.executeQuery("select \* from rps2");

System.out.println("\nRecords at Disk 2 after Sorting : \n");

while(sort2.next())

{

System.out.println(sort2.getInt(1)+" "+sort2.getString(2)+" "+sort2.getInt(3)+" "+sort2.getString(4)+" "+sort2.getString(5)+" "+sort2.getString(6)+" "+sort2.getInt(7)+" "+sort2.getInt(8));

}

con.commit();

ResultSet r5=stmt.executeQuery("drop table rps3");

ResultSet s3 = stmt.executeQuery("create table rps3 as select \* from rp3 order by Age");

ResultSet sort3 = stmt.executeQuery("select \* from rps3");

System.out.println("\nRecords at Disk 3 after Sorting :\n");

while(sort3.next())

{

System.out.println(sort3.getInt(1)+" "+sort3.getString(2)+" "+sort3.getInt(3)+" "+sort3.getString(4)+" "+sort3.getString(5)+" "+sort3.getString(6)+" "+sort3.getInt(7)+" "+sort3.getInt(8));

}

con.commit();

ResultSet r6=stmt.executeQuery("drop table rangepart");

ResultSet out = stmt.executeQuery("create table rangepart as select \* from rps1 union all select \* from rps2 union all select \* from rps3");

ResultSet out1 = stmt.executeQuery("select \* from rangepart");

System.out.println("\n\*\*\*Final Result after RangePartition sort :\*\*\*\n");

while(out1.next())

{

System.out.println(out1.getInt(1)+" "+out1.getString(2)+" "+out1.getInt(3)+" "+out1.getString(4)+" "+out1.getString(5)+" "+out1.getString(6)+" "+out1.getInt(7)+" "+out1.getInt(8));

}

con.commit();

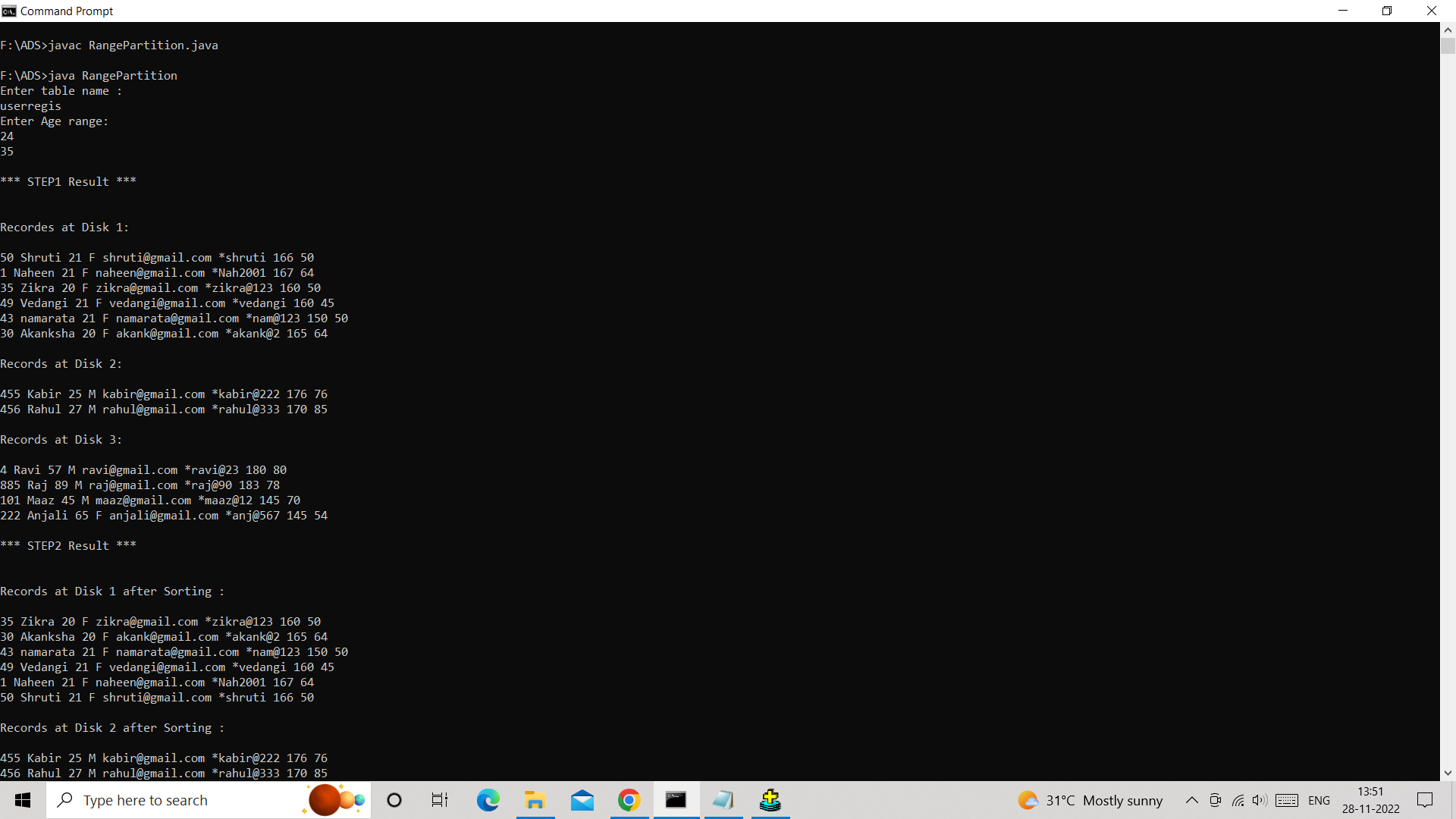
}

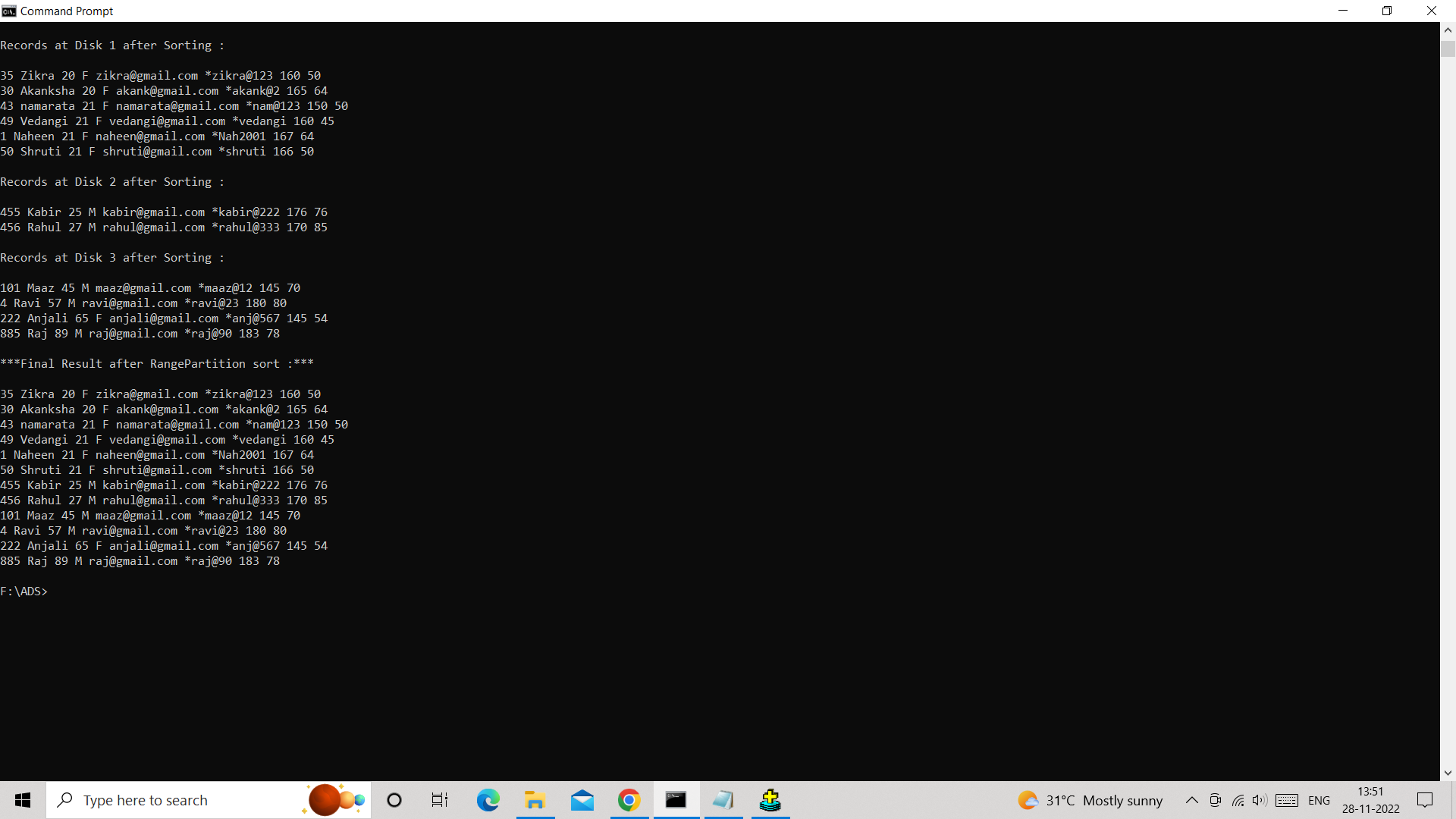
catch(Exception e){ System.out.println(e);}

}

}

***Output:***

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