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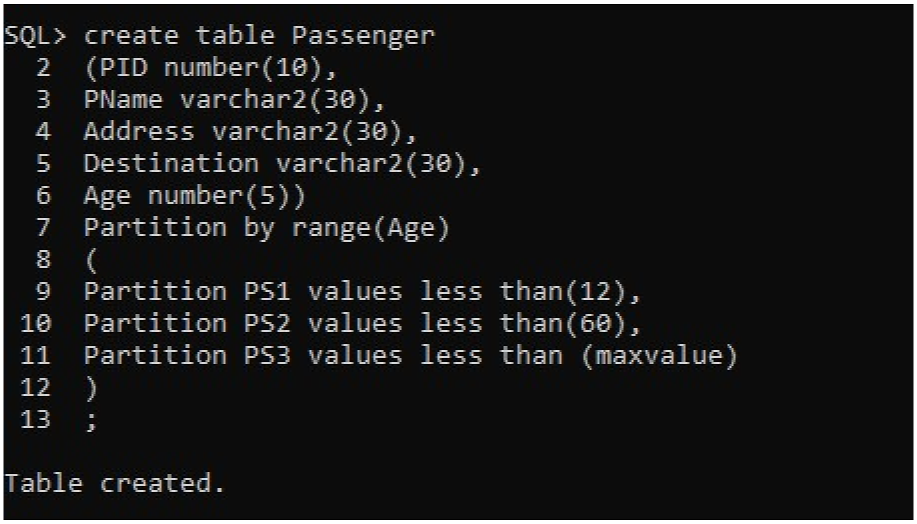
C21132

ADBMS Practical

Do the following:

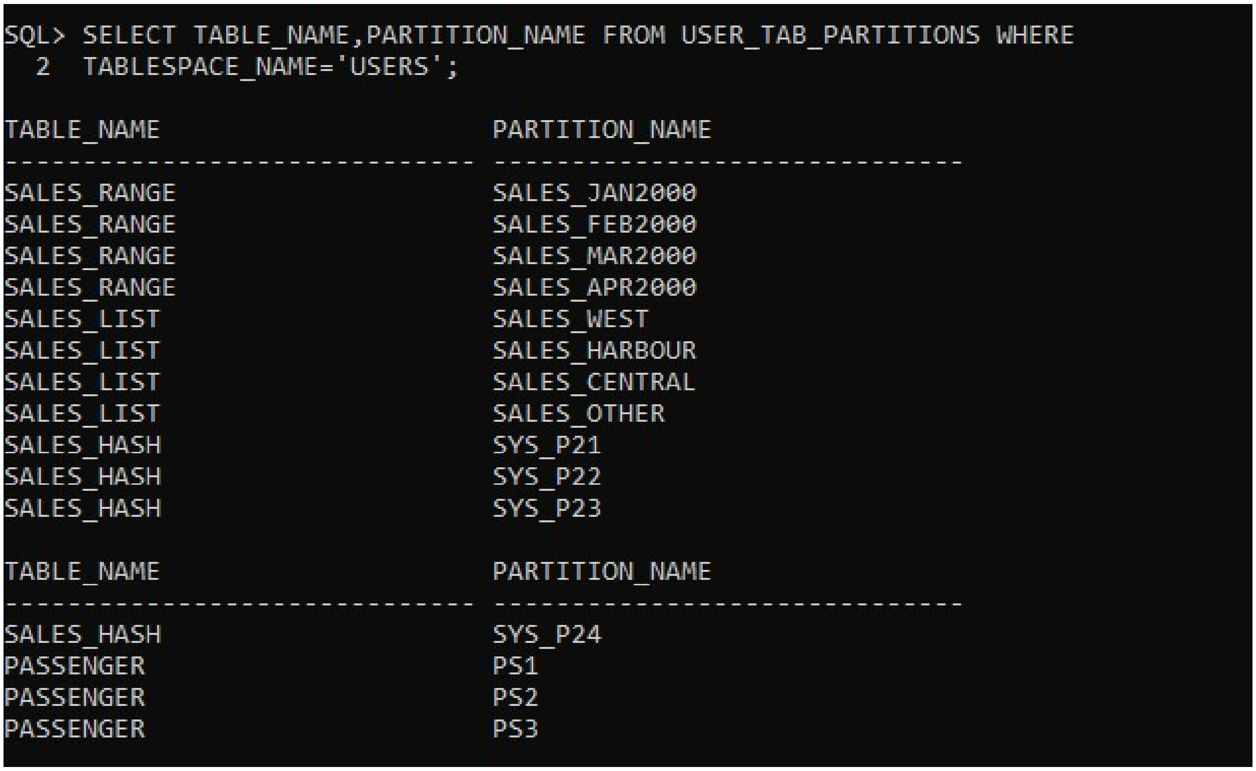
1. **Create table passenger with fields PID, PName, Address, Destination, Age.**
2. **Partition the passenger table based on age having following range:**
   PS1=less than 12
   PS2=less than 60
   PS3=Above 60
3. **Insert five records in Passenger table.**
4. **Display records of Senior citizen Passenger.**
5. **Add one more partition PS4 which will store records of Passenger whose age is more than 75.**



```
SQL> create table Passenger
  2  (PID number(10),
  3  PName varchar2(30),
  4  Address varchar2(30),
  5  Destination varchar2(30),
  6  Age number(5))
  7  Partition by range(Age)
  8  (
  9  Partition PS1 values less than(12),
 10  Partition PS2 values less than(60),
 11  Partition PS3 values less than (maxvalue)
 12  )
 13  ;

Table created.
```

```
SQL> SELECT TABLE_NAME,PARTITION_NAME FROM USER_TAB_PARTITIONS WHERE

  2  TABLESPACE_NAME='USERS';


TABLE_NAME                    PARTITION_NAME
```

```
---------------------------- ----------------------------

SALES_RANGE              SALES_JAN2000

SALES_RANGE              SALES_FEB2000

SALES_RANGE              SALES_MAR2000

SALES_RANGE              SALES_APR2000

SALES_LIST             SALES_WEST

SALES_LIST             SALES_HARBOUR

SALES_LIST             SALES_CENTRAL

SALES_LIST             SALES_OTHER

SALES_HASH               SYS_P21

SALES_HASH               SYS_P22

SALES_HASH               SYS_P23


TABLE_NAME                  PARTITION_NAME

---------------------------- ----------------------------

SALES_HASH               SYS_P24

PASSENGER              PS1

PASSENGER              PS2

PASSENGER              PS3
```



```
SQL> SELECT TABLE_NAME,PARTITION_NAME FROM USER_TAB_PARTITIONS WHERE
  2  TABLESPACE_NAME='USERS';

TABLE_NAME                     PARTITION_NAME
------------------------------ ------------------------------
SALES_RANGE                    SALES_JAN2000
SALES_RANGE                    SALES_FEB2000
SALES_RANGE                    SALES_MAR2000
SALES_RANGE                    SALES_APR2000
SALES_LIST                     SALES_WEST
SALES_LIST                     SALES_HARBOUR
SALES_LIST                     SALES_CENTRAL
SALES_LIST                     SALES_OTHER
SALES_HASH                     SYS_P21
SALES_HASH                     SYS_P22
SALES_HASH                     SYS_P23

TABLE_NAME                     PARTITION_NAME
------------------------------ ------------------------------
SALES_HASH                     SYS_P24
PASSENGER                      PS1
PASSENGER                      PS2
PASSENGER                      PS3
```

3. Insert five records

SQL> insert into Passenger values(1,'Ravi','Mumbai','Uttar Pradesh',45);

1 row created.

SQL> insert into Passenger values(2,'Rita','Thane','Telangana',70);

1 row created.

SQL> insert into Passenger values(3,'Sita','Andheri','Goa',10);

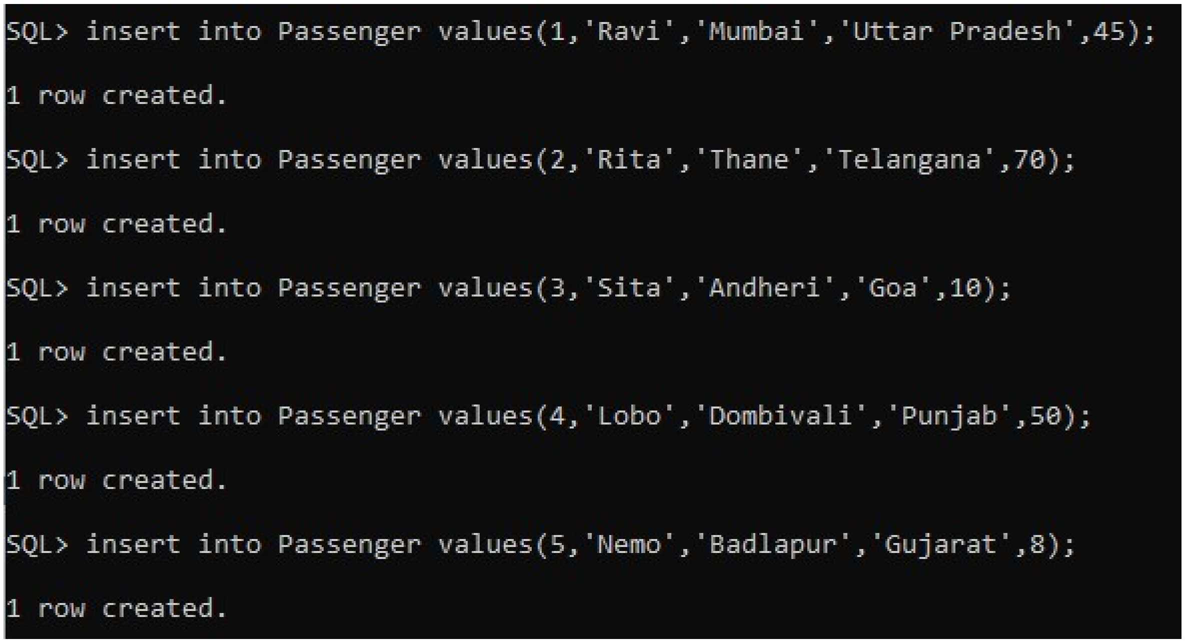
1 row created.

SQL> insert into Passenger values(4,'Lobo','Dombivali','Punjab',50);

1 row created.

SQL> insert into Passenger values(5,'Nemo','Badlapur','Gujarat',8);

1 row created.



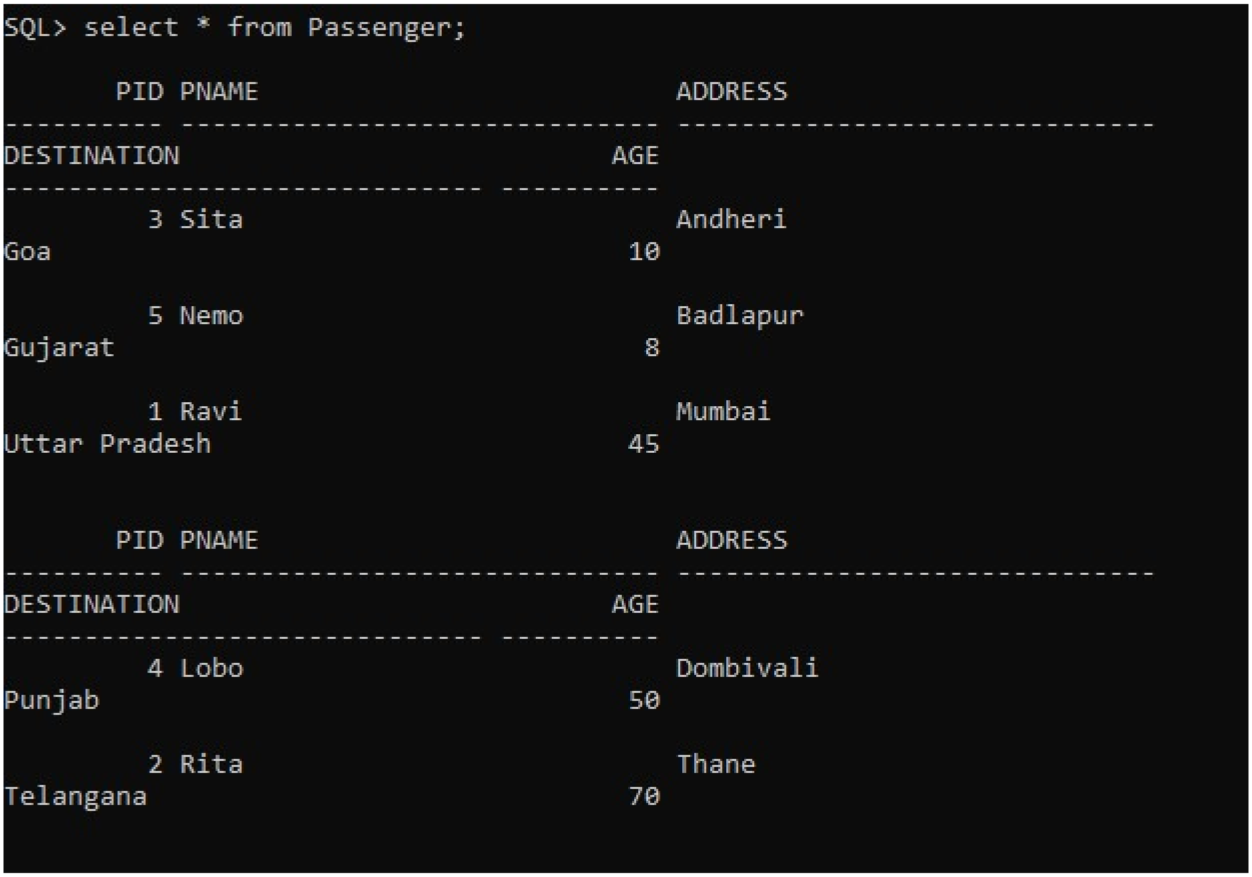
```
SQL> insert into Passenger values(1,'Ravi','Mumbai','Uttar Pradesh',45);

1 row created.

SQL> insert into Passenger values(2,'Rita','Thane','Telangana',70);

1 row created.

SQL> insert into Passenger values(3,'Sita','Andheri','Goa',10);

1 row created.

SQL> insert into Passenger values(4,'Lobo','Dombivali','Punjab',50);

1 row created.

SQL> insert into Passenger values(5,'Nemo','Badlapur','Gujarat',8);

1 row created.
```

Display the table

SQL> select * from Passenger;

```
      PID PNAME                       ADDRESS
---------- ------------------------------ ------------------------------
DESTINATION                       AGE
------------------------------ ----------
        3 Sita                     Andheri
Goa                              10
        5 Nemo                       Badlapur
Gujarat                           8
        1 Ravi                      Mumbai
Uttar Pradesh                     45
      PID PNAME                       ADDRESS
---------- ------------------------------ ------------------------------
DESTINATION                       AGE
------------------------------ ----------
        4 Lobo                        Dombivali
Punjab                            50
```

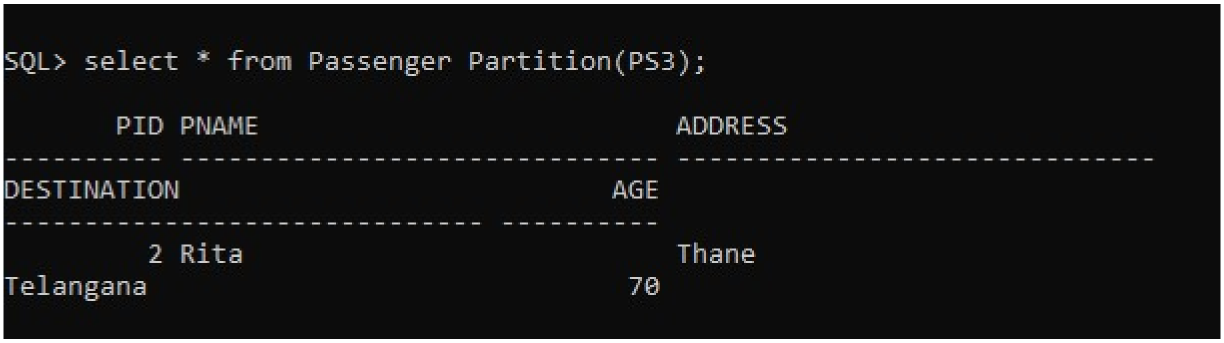
```
         2 Rita                          Thane
Telangana                                 70
```



```
SQL> select * from Passenger;

       PID PNAME                          ADDRESS
---------- ------------------------------ ------------------------------
DESTINATION                           AGE
------------------------------ ----------
         3 Sita                           Andheri
Goa                                    10

         5 Nemo                           Badlapur
Gujarat                                 8

         1 Ravi                           Mumbai
Uttar Pradesh                          45


       PID PNAME                          ADDRESS
---------- ------------------------------ ------------------------------
DESTINATION                           AGE
------------------------------ ----------
         4 Lobo                           Dombivali
Punjab                                 50

         2 Rita                           Thane
Telangana                              70
```

4. Display records of Senior citizen Passenger.

```
SQL> select * from Passenger Partition(PS3);

       PID PNAME                          ADDRESS

---------- ------------------------------ ------------------------------

DESTINATION                           AGE

------------------------------ ----------

         2 Rita                          Thane

Telangana                                 70
```



```
SQL> select * from Passenger Partition(PS3);

       PID PNAME                          ADDRESS
---------- ------------------------------ ------------------------------
DESTINATION                           AGE
------------------------------ ----------
         2 Rita                           Thane
Telangana                              70
```

6. **Add one more partition PS4 which will store records of Passenger whose age is more than 75.**

For doing this first we need to drop the Partition PS3 because we have given it maximum value and add PS4.

SQL> ALTER table Passenger DROP PARTITION PS3;

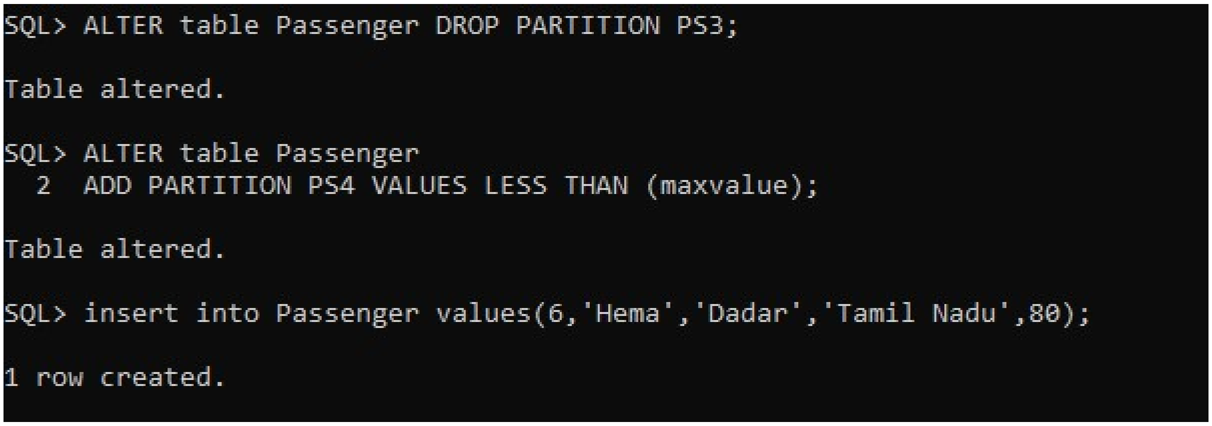
Table altered.

SQL> ALTER table Passenger

  2 ADD PARTITION PS4 VALUES LESS THAN (maxvalue);

Table altered.

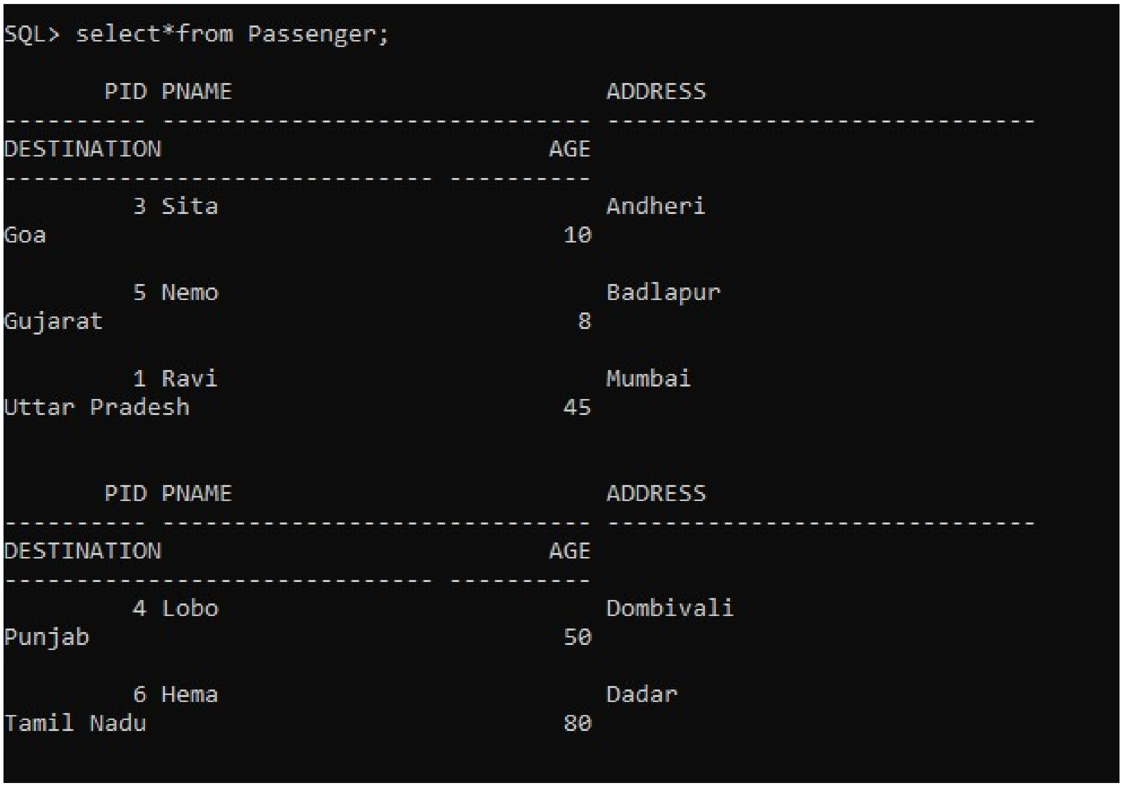
SQL> insert into Passenger values(6,'Hema','Dadar','Tamil Nadu',80);
1 row created.



```
SQL> ALTER table Passenger DROP PARTITION PS3;

Table altered.

SQL> ALTER table Passenger
  2  ADD PARTITION PS4 VALUES LESS THAN (maxvalue);

Table altered.

SQL> insert into Passenger values(6,'Hema','Dadar','Tamil Nadu',80);

1 row created.
```

Display the table
SQL> select*from Passenger;
       PID PNAME   ADDRESS

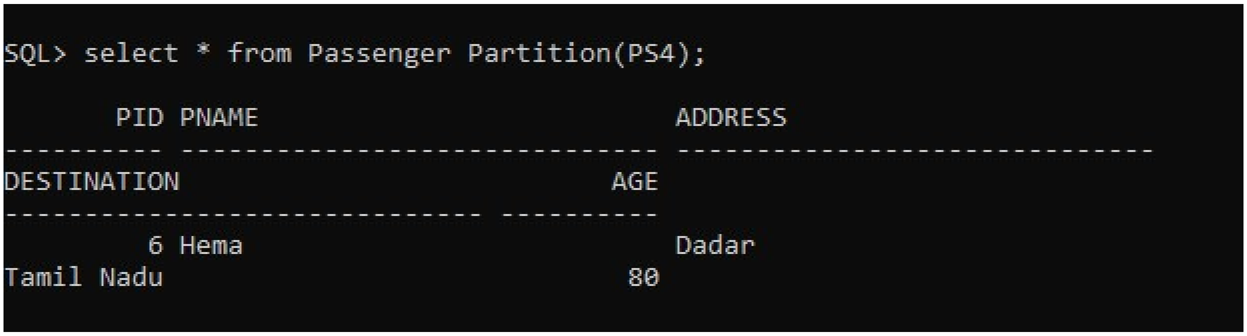
```
---------- ----------------------------- -----------------------------
DESTINATION                       AGE
----------------------------- ----------
        3 Sita                      Andheri
Goa                              10
        5 Nemo                         Badlapur
Gujarat                           8
        1 Ravi                        Mumbai
Uttar Pradesh                      45
      PID PNAME                          ADDRESS
---------- ----------------------------- -----------------------------
DESTINATION                       AGE
----------------------------- ----------
        4 Lobo                        Dombivali
Punjab                            50
        6 Hema                         Dadar
Tamil Nadu                         80
```



```
SQL> select*from Passenger;

       PID PNAME                          ADDRESS
---------- ------------------------------ ------------------------------
DESTINATION                           AGE
------------------------------ ----------
         3 Sita                           Andheri
Goa                                    10

         5 Nemo                           Badlapur
Gujarat                                 8

         1 Ravi                           Mumbai
Uttar Pradesh                          45


       PID PNAME                          ADDRESS
---------- ------------------------------ ------------------------------
DESTINATION                           AGE
------------------------------ ----------
         4 Lobo                           Dombivali
Punjab                                 50

         6 Hema                           Dadar
Tamil Nadu                             80
```

Age More than 75

```
SQL> select * from Passenger Partition(PS4);

      PID PNAME                    ADDRESS

---------- ------------------------------ ------------------------------

DESTINATION                    AGE

------------------------------ ----------

        6 Hema                 Dadar

Tamil Nadu                     80
```



```
SQL> select * from Passenger Partition(PS4);

       PID PNAME                          ADDRESS
---------- ------------------------------ ------------------------------
DESTINATION                           AGE
------------------------------ ----------
         6 Hema                           Dadar
Tamil Nadu                             80
```

Q2. Create table Customer having fields Cust_no,Cust_name,Cust _city,Ph_no

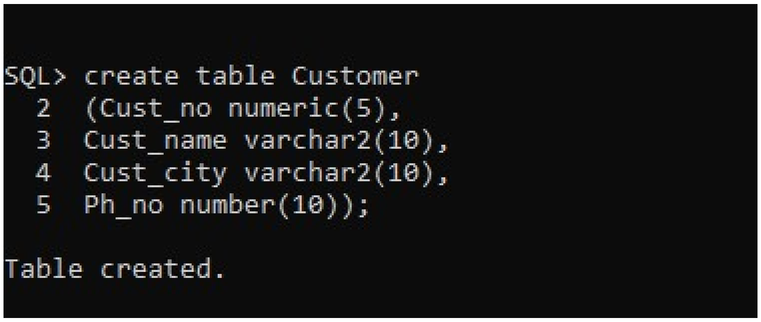
6. Insert 5 records

7. Fetch this table in Pentaho

8. Add one sequence in Customer table whose Initial value starts from 10 and which is incremented by 2 9. Store the changes in target table 10. Reflect the changes in SQL

Create table name Customer

```
SQL> create table Customer

  2  (Cust_no numeric(5),

  3  Cust_name varchar2(10),

  4  Cust_city varchar2(10),

  5  Ph_no number(10));

Table created.
```



```
SQL> create table Customer
  2  (Cust_no numeric(5),
  3  Cust_name varchar2(10),
  4  Cust_city varchar2(10),
  5  Ph_no number(10));

Table created.
```

Insert 5 records

```
SQL> insert into Customer values(101,'Raju','Mumbai',2314728194);

1 row created.

SQL> insert into Customer values(102,'Geeta','Pune',6218752917);
```

1 row created.

SQL> insert into Customer values(103,'Sita','Ahemdabad',7623863626);

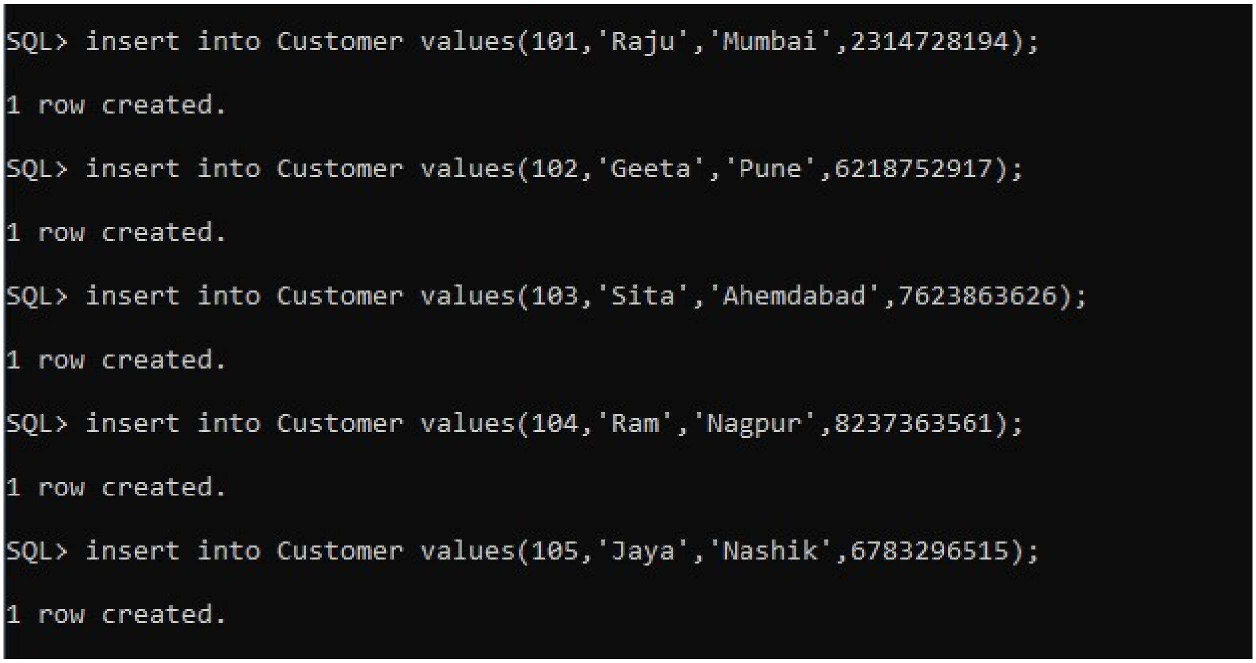
1 row created.

SQL> insert into Customer values(104,'Ram','Nagpur',8237363561);

1 row created.

SQL> insert into Customer values(105,'Jaya','Nashik',6783296515);

1 row created.



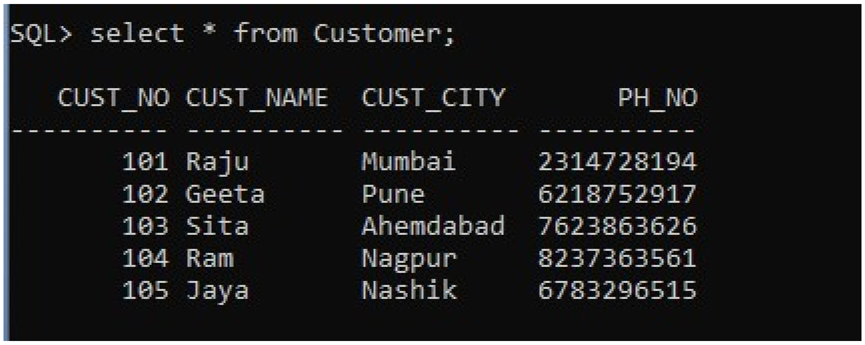
```
SQL> insert into Customer values(101,'Raju','Mumbai',2314728194);

1 row created.

SQL> insert into Customer values(102,'Geeta','Pune',6218752917);

1 row created.

SQL> insert into Customer values(103,'Sita','Ahemdabad',7623863626);

1 row created.

SQL> insert into Customer values(104,'Ram','Nagpur',8237363561);

1 row created.

SQL> insert into Customer values(105,'Jaya','Nashik',6783296515);

1 row created.
```

Display table

SQL> select * from Customer;

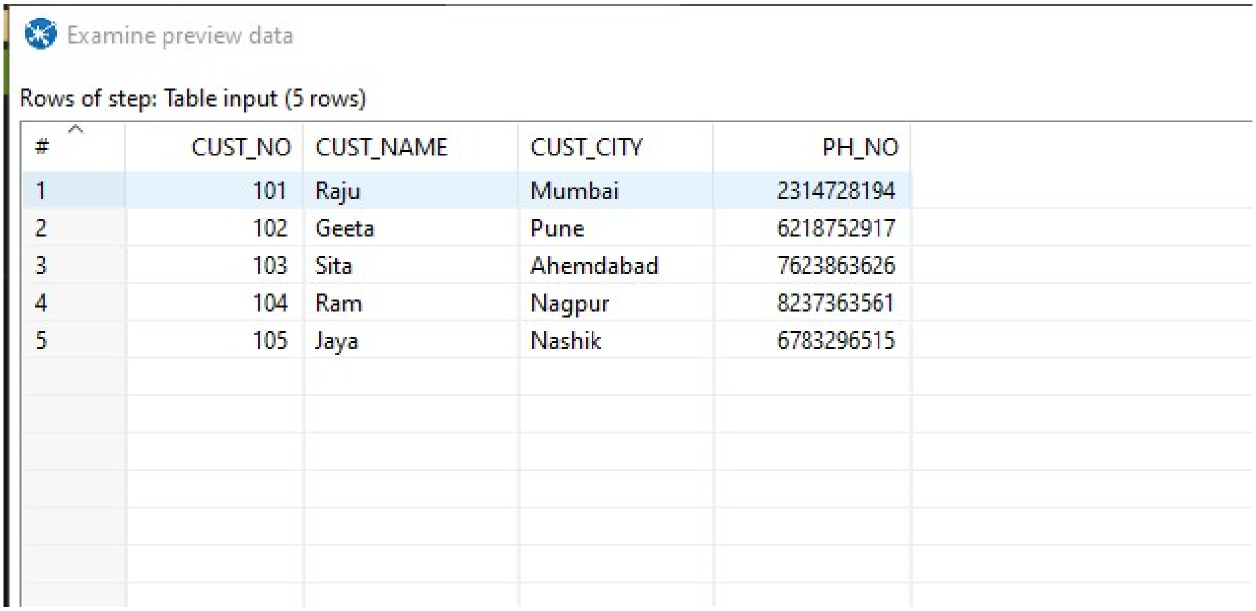
```
   CUST_NO CUST_NAME  CUST_CITY       PH_NO
---------- ---------- ---------- ----------
       101 Raju       Mumbai     2314728194
       102 Geeta      Pune       6218752917
```

103	Sita	Ahemdabad	7623863626
104	Ram	Nagpur	8237363561
105	Jaya	Nashik	6783296515



```
SQL> select * from Customer;

   CUST_NO CUST_NAME  CUST_CITY       PH_NO
---------- ---------- ---------- ----------
       101 Raju       Mumbai     2314728194
       102 Geeta      Pune       6218752917
       103 Sita       Ahemdabad  7623863626
       104 Ram        Nagpur     8237363561
       105 Jaya       Nashik     6783296515
```

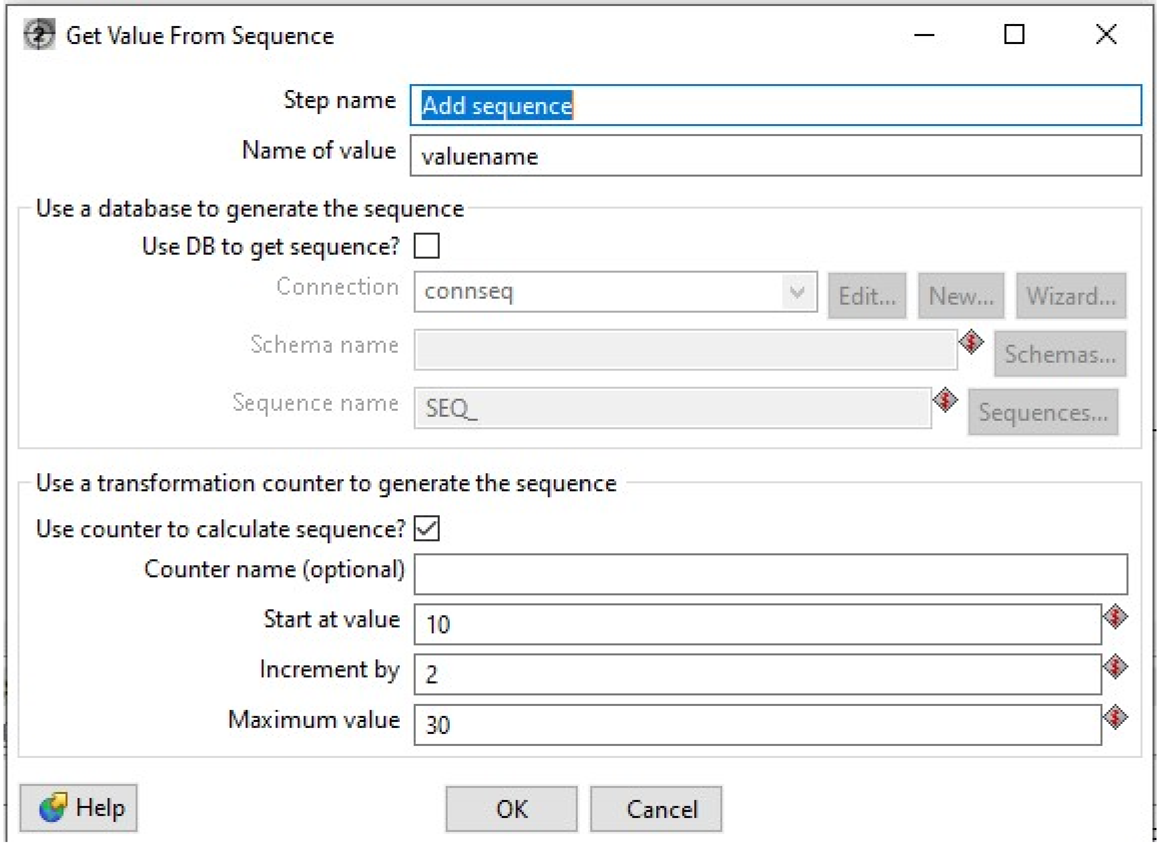
Fetch table in Pentaho



Rows of step: Table input (5 rows)

#	CUST_NO	CUST_NAME	CUST_CITY	PH_NO
1	101	Raju	Mumbai	2314728194
2	102	Geeta	Pune	6218752917
3	103	Sita	Ahemdabad	7623863626
4	104	Ram	Nagpur	8237363561
5	105	Jaya	Nashik	6783296515

Add a sequence



Get Value From Sequence

Step name: Add sequence

Name of value: valuename

Use a database to generate the sequence

Use DB to get sequence? □

Connection: connseq

Schema name:

Sequence name: SEQ_

Use a transformation counter to generate the sequence

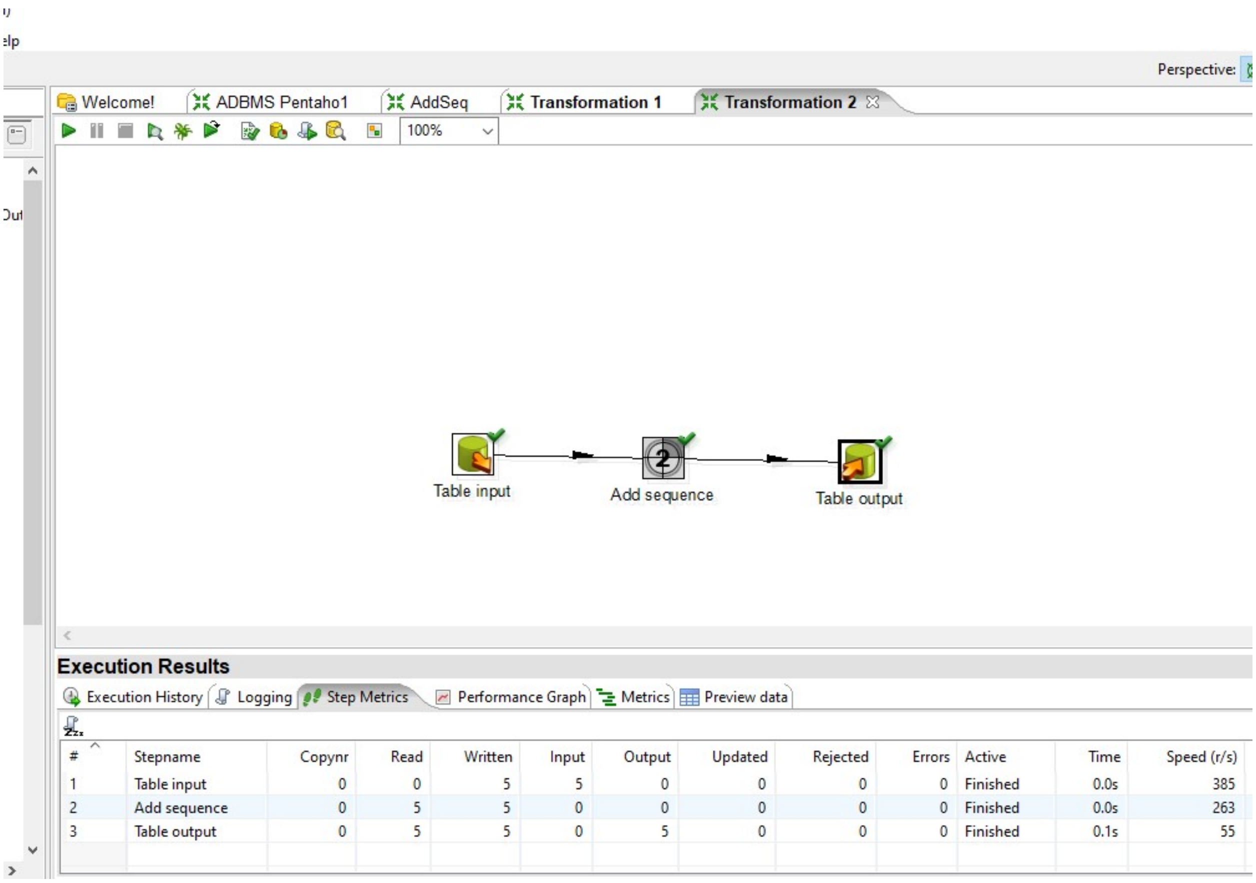
Use counter to calculate sequence? ☑

Counter name (optional):

Start at value: 10

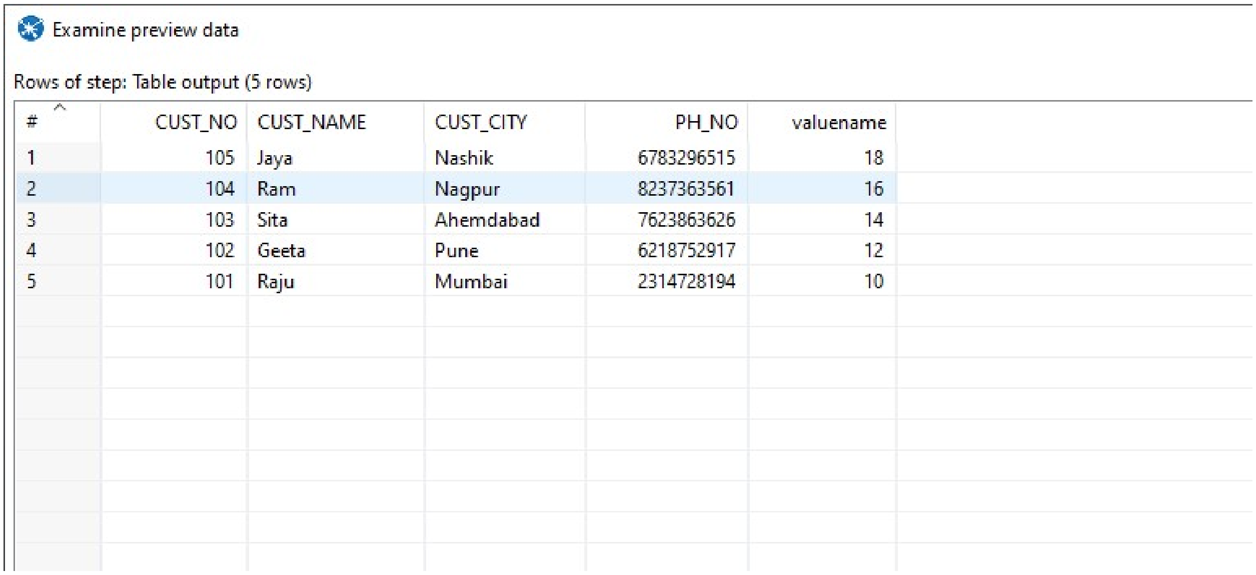
Increment by: 2

Maximum value: 30



#	Stepname	Copynr	Read	Written	Input	Output	Updated	Rejected	Errors	Active	Time	Speed (r/s)
1	Table input	0	0	5	5	0	0	0	0	Finished	0.0s	385
2	Add sequence	0	5	5	0	0	0	0	0	Finished	0.0s	263
3	Table output	0	5	5	0	5	0	0	0	Finished	0.1s	55

Stored the changes in target table

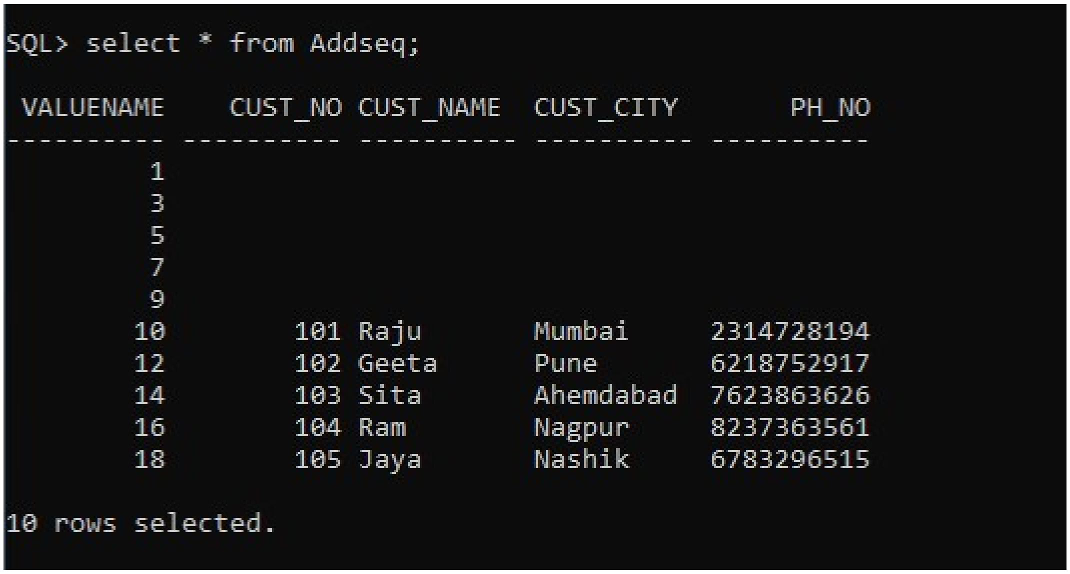

Examine preview data

Rows of step: Table output (5 rows)

#	CUST_NO	CUST_NAME	CUST_CITY	PH_NO	valuename
1	105	Jaya	Nashik	6783296515	18
2	104	Ram	Nagpur	8237363561	16
3	103	Sita	Ahemdabad	7623863626	14
4	102	Geeta	Pune	6218752917	12
5	101	Raju	Mumbai	2314728194	10

Reflect the changes in SQL

```
SQL> select * from Addseq;

 VALUENAME    CUST_NO CUST_NAME  CUST_CITY       PH_NO

---------- ---------- ---------- ---------- ----------

        1

        3

        5

        7

        9

       10        101 Raju      Mumbai     2314728194

       12        102 Geeta      Pune       6218752917

       14        103 Sita       Ahemdabad  7623863626

       16        104 Ram        Nagpur     8237363561

       18        105 Jaya       Nashik     6783296515

10 rows selected.
```



```
SQL> select * from Addseq;

 VALUENAME    CUST_NO CUST_NAME  CUST_CITY       PH_NO
---------- ---------- ---------- ---------- ----------
         1
         3
         5
         7
         9
        10        101 Raju       Mumbai     2314728194
        12        102 Geeta      Pune       6218752917
        14        103 Sita       Ahemdabad  7623863626
        16        104 Ram        Nagpur     8237363561
        18        105 Jaya       Nashik     6783296515

10 rows selected.
```