

Assignment No	2
Title	Implement partitioning Concepts
Objective	List partitioning
Roll No	MCA2565

1. Create Table student with attributes id,name,dob and partition by list

```
SQL> create table Student(
  2 student_id number(5),
  3 student_name varchar(20),
  4 student_dob date)
  5 partition by list(student_name)
  6 (partition stu_divA values('a','b','c','d','e','f','g','h','i','j','k'),
  7 partition stu_divB values('n','o','p','q','r','s','t','u','v','w','x','y','z'));
```

Table created.

2. Insert values into Student table

```
SQL> insert into Student values(0121,'m',to_date('23-AUG-1963','dd-MON-yyyy'));
insert into Student values(0121,'m',to_date('23-AUG-1963','dd-MON-yyyy'))
*
ERROR at line 1:
ORA-14400: inserted partition key does not map to any partition

SQL> insert into Student values(0121,'n',to_date('23-AUG-1963','dd-MON-yyyy'));
1 row created.

SQL> insert into Student values(0221,'j',to_date('15-SEP-1963','dd-MON-yyyy'));
1 row created.

SQL> insert into Student values(0321,'a',to_date('21-JUN-1953','dd-MON-yyyy'));
1 row created.

SQL> insert into Student values(0421,'h',to_date('10-JUL-1991','dd-MON-yyyy'));
1 row created.

SQL> insert into Student values(0521,'i',to_date('06-DEC-1977','dd-MON-yyyy'));
1 row created.

SQL> insert into Student values(0621,'z',to_date('26-JAN-1993','dd-MON-yyyy'));
1 row created.

SQL> insert into Student values(0621,'s',to_date('18-FEB-1985','dd-MON-yyyy'));
```

3. Show the values in Partition A and B

STUDENT_ID	STUDENT_NAME	STUDENT_D
221	j	15-SEP-63
321	a	21-JUN-53
421	h	10-JUL-91
521	i	06-DEC-77

  

STUDENT_ID	STUDENT_NAME	STUDENT_D
121	n	23-AUG-63
621	z	26-JAN-93
621	s	18-FEB-85

4. Show partition in table separately.

```
SQL> SELECT TABLE_NAME, PARTITION_NAME, HIGH_VALUE, NUM_ROWS FROM USER_TAB_PARTITIONS
2 WHERE TABLE_NAME='STUDENT';
```

TABLE_NAME	PARTITION_NAME	HIGH_VALUE	NUM_ROWS
STUDENT	STU_DIVA	'a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k'	
STUDENT	STU_DIVB	'n', 'o', 'p', 'q', 'r', 's', 't', 'u', 'v', 'w', 'x', 'y', 'z'	

5. Write a command to add new partition called stu\_null for the null values

```
SQL> alter table student add partition stu_null values(NULL);
Table altered.

SQL> SELECT TABLE_NAME, PARTITION_NAME, HIGH_VALUE, NUM_ROWS FROM USER_TAB_PARTITIONS
2 WHERE TABLE_NAME='STUDENT';

TABLE_NAME
PARTITION_NAME
HIGH_VALUE
NUM_ROWS

STUDENT
STU_DIVA
'a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k'

TABLE_NAME
PARTITION_NAME
HIGH_VALUE
NUM_ROWS

STUDENT
STU_DIVB
'n', 'o', 'p', 'q', 'r', 's', 't', 'u', 'v', 'w', 'x', 'y', 'z'
```

TABLE\_NAME

PARTITION\_NAME

HIGH\_VALUE

NUM\_ROWS

STUDENT

STU\_NULL

NULL

6. Add values into stu\_null table

```
SQL> insert into Student values(0621,'',to_date('18-FEB-1985','dd-MON-yyyy'));
1 row created.

SQL> insert into Student values(0621,'',to_date('01-may-1999','dd-MON-yyyy'));
1 row created.
```

```
SQL> select * from Student partition(stu_null);
```

STUDENT_ID	STUDENT_NAME	STUDENT_D
621		18-FEB-85
621		01-MAY-99

7. Write a command to add new partition called stu\_default for the default values  
 Write a command to display records from the stu\_default partition

```
SQL> alter table Student add partition stu_default values(DEFAULT)
2 ;
Table altered.

SQL> select * from Student partition(stu_default);
no rows selected
```

8. Command to add values 'l' and 'm' in a partition stu\_divA

```
SQL> alter table Student modify partition stu_divA add values ('l','m');
Table altered.
```

TABLE\_NAME

PARTITION\_NAME

HIGH\_VALUE

NUM\_ROWS

STUDENT

STU\_DEFAULT

DEFAULT

9. Add new l and m values in div A

```
SQL> select * from Student partition(stu_divA);
```

STUDENT_ID	STUDENT_NAME	STUDENT_D
221	j	15-SEP-63
321	a	21-JUN-53
421	h	10-JUL-91
521	i	06-DEC-77
721	l	01-JAN-00
721	m	02-DEC-86

```
6 rows selected.
```