**PRACTICAL O3**

***QUERY 1***

CREATE TABLESPACE tsA DATAFILE 'G:/prasad/tsA.dbf' SIZE 10M;

CREATE TABLESPACE tsB DATAFILE 'G:/prasad/tsB.dbf' SIZE 10M;

CREATE TABLESPACE tsC DATAFILE 'G:/prasad/tsC.dbf' SIZE 10M;

CREATE TABLESPACE tsD DATAFILE 'G:/prasad/tsD.dbf' SIZE 10M;

CREATE TABLE SALES(

PROD\_ID INTEGER,

CUSTOMER\_ID INTEGER,

PROMO\_ID INTEGER,

QUANTITY INTEGER,

TIME\_ID DATE

)

PARTITION BY RANGE(TIME\_ID)

(

PARTITION SALES\_Q1 VALUES LESS THAN (TO\_DATE('01-APR-2018','DD-MON-YYYY')) TABLESPACE tsA,

PARTITION SALES\_Q2 VALUES LESS THAN (TO\_DATE('01-JUL-2018','DD-MON-YYYY')) TABLESPACE tsB,

PARTITION SALES\_Q3 VALUES LESS THAN (TO\_DATE('01-NOV-2018','DD-MON-YYYY')) TABLESPACE tsC,

PARTITION SALES\_Q4 VALUES LESS THAN (TO\_DATE('01-JAN-2019','DD-MON-YYYY')) TABLESPACE tsD

);

INSERT INTO SALES VALUES(1,120,12,200,'02-MAY-2018');

INSERT INTO SALES VALUES(2,122,13,100,'04-SEP-2018');

INSERT INTO SALES VALUES(3,125,53,600,'02-OCT-2018');

INSERT INTO SALES VALUES(4,127,89,800,'01-DEC-2018');

INSERT INTO SALES VALUES(7,120,12,200,'01-MAR-2018');

**SQL> INSERT INTO SALES VALUES(1,120,12,200,'02-MAY-2018');**

**1 row created.**

**SQL> INSERT INTO SALES VALUES(2,122,13,100,'04-SEP-2018');**

**1 row created.**

**SQL> INSERT INTO SALES VALUES(3,125,53,600,'02-OCT-2018');**

**1 row created.**

**SQL> INSERT INTO SALES VALUES(4,127,89,800,'01-DEC-2018');**

**1 row created.**

**SQL> INSERT INTO SALES VALUES(7,120,12,200,'01-MAR-2018');**

**1 row created.**

**SQL> EXEC DBMS\_STATS.GATHER\_TABLE\_STATS('PRASAD','SALES');**

**PL/SQL procedure successfully completed.**

**SQL> SELECT PARTITION\_NAME,TABLESPACE\_NAME,NUM\_ROWS FROM USER\_TAB\_PARTITIONS WHERE TABLE\_NAME='SALES';**

**PARTITION\_NAME TABLESPACE\_NAME NUM\_ROWS**

**------------------------------ ------------------------------ ----------**

**SALES\_Q1 TSA 1**

**SALES\_Q2 TSB 1**

**SALES\_Q3 TSC 2**

**SALES\_Q4 TSD 1**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

***QUERY 2***

CREATE TABLE SALES\_SECOND(

PROD\_ID INTEGER,

CUSTOMER\_ID INTEGER,

PROMO\_ID INTEGER,

QUANTITY INTEGER,

TIME\_ID DATE

)

PARTITION BY RANGE(TIME\_ID)

(

PARTITION SALES\_Q1 VALUES LESS THAN (TO\_DATE('01-APR-2018','DD-MON-YYYY')) TABLESPACE tsA,

PARTITION SALES\_Q2 VALUES LESS THAN (TO\_DATE('01-JUL-2018','DD-MON-YYYY')) TABLESPACE tsB,

PARTITION SALES\_Q3 VALUES LESS THAN (TO\_DATE('01-NOV-2018','DD-MON-YYYY')) TABLESPACE tsC,

PARTITION SALES\_Q4 VALUES LESS THAN (TO\_DATE('01-JAN-2019','DD-MON-YYYY')) TABLESPACE tsD

)

ENABLE ROW MOVEMENT;

INSERT INTO SALES\_SECOND VALUES(1,120,12,200,'02-MAY-2018');

INSERT INTO SALES\_SECOND VALUES(2,122,13,100,'04-SEP-2018');

INSERT INTO SALES\_SECOND VALUES(3,125,53,600,'02-OCT-2018');

INSERT INTO SALES\_SECOND VALUES(4,127,89,800,'01-DEC-2018');

INSERT INTO SALES\_SECOND VALUES(7,120,12,200,'01-MAR-2018');

UPDATE SALES SET TIME\_ID='01-FEB-2018' WHERE PROD\_ID=2;

UPDATE SALES\_SECOND SET TIME\_ID='01-FEB-2018' WHERE PROD\_ID=1;

**SQL> INSERT INTO SALES\_SECOND VALUES(1,120,12,200,'02-MAY-2018');**

**1 row created.**

**SQL> INSERT INTO SALES\_SECOND VALUES(2,122,13,100,'04-SEP-2018');**

**1 row created.**

**SQL> INSERT INTO SALES\_SECOND VALUES(3,125,53,600,'02-OCT-2018');**

**1 row created.**

**SQL> INSERT INTO SALES\_SECOND VALUES(4,127,89,800,'01-DEC-2018');**

**1 row created.**

**SQL> INSERT INTO SALES\_SECOND VALUES(7,120,12,200,'01-MAR-2018');**

**1 row created.**

**SQL> EXEC DBMS\_STATS.GATHER\_TABLE\_STATS('PRASAD','SALES\_SECOND');**

**PL/SQL procedure successfully completed.**

**SQL> SELECT PARTITION\_NAME,TABLESPACE\_NAME,NUM\_ROWS FROM USER\_TAB\_PARTITIONS WHERE TABLE\_NAME='SALES\_SECOND';**

**PARTITION\_NAME TABLESPACE\_NAME NUM\_ROWS**

**------------------------------ ------------------------------ ----------**

**SALES\_Q1 TSA 1**

**SALES\_Q2 TSB 1**

**SALES\_Q3 TSC 2**

**SALES\_Q4 TSD 1**

**SQL> UPDATE SALES\_SECOND SET TIME\_ID='01-FEB-2018' WHERE PROD\_ID=1;**

**1 row updated.**

**SQL> EXEC DBMS\_STATS.GATHER\_TABLE\_STATS('PRASAD','SALES\_SECOND');**

**PL/SQL procedure successfully completed.**

**SQL> SELECT PARTITION\_NAME,TABLESPACE\_NAME,NUM\_ROWS FROM USER\_TAB\_PARTITIONS WHERE TABLE\_NAME='SALES\_SECOND';**

**PARTITION\_NAME TABLESPACE\_NAME NUM\_ROWS**

**------------------------------ ------------------------------ ----------**

**SALES\_Q1 TSA 2**

**SALES\_Q2 TSB 0**

**SALES\_Q3 TSC 2**

**SALES\_Q4 TSD 1**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

***QUERY 3***

CREATE TABLE DEPARTMENT(

DEPT\_NO INTEGER,

DEPT\_NAME VARCHAR(10),

QUATERLY\_SALES INTEGER,

D\_STATE VARCHAR(2)

)

PARTITION BY LIST(D\_STATE)

(

PARTITION NORTHWEST VALUES('OR','WA'),

PARTITION SOUTHWEST VALUES('AZ','UT','NM'),

PARTITION NORTHEAST VALUES('NY','VM','NJ'),

PARTITION SOUTHEAST VALUES('FL','GA'),

PARTITION NORTHCENTRAL VALUES('SD','WI'),

PARTITION SOUTHCENTRAL VALUES ('OK','TX')

);

INSERT INTO DEPARTMENT VALUES(10,'ACCOUNTS',100,'WA');

INSERT INTO DEPARTMENT VALUES(20,'R&D',150,'OR');

INSERT INTO DEPARTMENT VALUES(30,'SALES',100,'FL');

INSERT INTO DEPARTMENT VALUES(40,'HR',10,'TX');

INSERT INTO DEPARTMENT VALUES(50,'SYSENGG',10,'CA');

**SQL> SELECT \* FROM DEPARTMENT;**

**DEPT\_NO DEPT\_NAME QUATERLY\_SALES D\_NAME**

**---------- ---------- -------------- ------**

**10 ACCOUNTS 100 WA**

**20 R 150 OR**

**30 SALES 100 FL**

**40 HR 10 TX**

**SQL> INSERT INTO DEPARTMENT VALUES(50,'SYSENGG',10,'CA');**

**INSERT INTO DEPARTMENT VALUES(50,'SYSENGG',10,'CA')**

**\***

**ERROR at line 1:**

**ORA-14400: inserted partition key does not map to any partition**

ALTER TABLE DEPARTMENT ADD PARTITION STATE\_DEFAULT VALUES(DEFAULT);

**SQL> ALTER TABLE DEPARTMENT ADD PARTITION STATE\_DEFAULT VALUES(DEFAULT);**

**Table altered.**

**SQL> INSERT INTO DEPARTMENT VALUES(50,'SYSENGG',10,'CA');**

**1 row created.**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

***QUERY 4***

CREATE TABLE EMPLOYEE(

EMP\_NO INTEGER,

JOB VARCHAR(10),

SALARY INTEGER,

DEPT\_NO INTEGER

)

PARTITION BY HASH(EMP\_NO)

PARTITIONS 5;

INSERT INTO EMPLOYEE VALUES(1,'DEVELOPER',1500,1);

INSERT INTO EMPLOYEE VALUES(3,'DEVELOPER',140,2);

**SQL> INSERT INTO EMPLOYEE VALUES(1,'DEVELOPER',1500,1);**

**1 row created.**

**SQL> INSERT INTO EMPLOYEE VALUES(3,'DEVELOPER',140,2);**

**1 row created.**

**SQL> SELECT \* FROM EMPLOYEE;**

**EMP\_NO JOB SALARY DEPT\_NO**

**---------- ---------- ---------- ----------**

**1 DEVELOPER 1500 1**

**3 DEVELOPER 140 2**

**SQL> SELECT PARTITION\_NAME FROM USER\_TAB\_PARTITIONS WHERE TABLE\_NAME='EMPLOYEE';**

**PARTITION\_NAME**

**------------------------------**

**SYS\_P21**

**SYS\_P22**

**SYS\_P23**

**SYS\_P24**

**SYS\_P25**

CREATE TABLE EMPLOYEE\_SECOND(

EMP\_NO INTEGER,

JOB VARCHAR(10),

SALARY INTEGER,

DEPT\_NO INTEGER

)

PARTITION BY HASH(EMP\_NO)

(

PARTITION P1,

PARTITION P2,

PARTITION P3,

PARTITION P4,

PARTITION P5

);

INSERT INTO EMPLOYEE\_SECOND VALUES(1,'DEVELOPER',1500,1);

INSERT INTO EMPLOYEE\_SECOND VALUES(3,'DEVELOPER',140,2);

**SQL> INSERT INTO EMPLOYEE\_SECOND VALUES(1,'DEVELOPER',1500,1);**

**1 row created.**

**SQL> INSERT INTO EMPLOYEE\_SECOND VALUES(3,'DEVELOPER',140,2);**

**1 row created.**

**SQL> SELECT PARTITION\_NAME FROM USER\_TAB\_PARTITIONS WHERE TABLE\_NAME='EMPLOYEE\_SECOND';**

**PARTITION\_NAME**

**------------------------------**

**P1**

**P2**

**P3**

**P4**

**P5**

**SQL> EXEC DBMS\_STATS.GATHER\_TABLE\_STATS('PRASAD','EMPLOYEE\_SECOND');**

**PL/SQL procedure successfully completed.**

**SQL> SELECT PARTITION\_NAME,NUM\_ROWS FROM USER\_TAB\_PARTITIONS WHERE TABLE\_NAME='EMPLOYEE\_SECOND';**

**PARTITION\_NAME NUM\_ROWS**

**------------------------------ ----------**

**P1 0**

**P2 0**

**P3 0**

**P4 2**

**P5 0**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

***QUERY 5***

CREATE TABLE DATE\_INFO

(

D\_DAY NUMBER,

D\_MONTH NUMBER,

D\_YEAR NUMBER,

AMT\_SOLD NUMBER

)

PARTITION BY RANGE(D\_YEAR,D\_MONTH)

(

PARTITION P1 VALUES LESS THAN(2001,1),

PARTITION P2 VALUES LESS THAN(2001,4),

PARTITION P3 VALUES LESS THAN(2001,7),

PARTITION P4 VALUES LESS THAN(2001,10),

PARTITION P5 VALUES LESS THAN(2002,2),

PARTITION P6 VALUES LESS THAN(MAXVALUE,0)

);

INSERT INTO DATE\_INFO VALUES(17,3,2001,2000);

INSERT INTO DATE\_INFO VALUES(1,11,2001,5000);

INSERT INTO DATE\_INFO VALUES(1,1,2002,4000);

**SQL> INSERT INTO DATE\_INFO VALUES(17,3,2001,2000);**

**1 row created.**

**SQL> INSERT INTO DATE\_INFO VALUES(1,11,2001,5000);**

**1 row created.**

**SQL> INSERT INTO DATE\_INFO VALUES(1,1,2002,4000);**

**1 row created.**

**SQL> SELECT \* FROM DATE\_INFO;**

**D\_DAY D\_MONTH D\_YEAR AMT\_SOLD**

**---------- ---------- ---------- ----------**

**17 3 2001 2000**

**1 11 2001 5000**

**1 1 2002 4000**

**SQL> EXEC DBMS\_STATS.GATHER\_TABLE\_STATS('PRASAD','DATE\_INFO');**

**PL/SQL procedure successfully completed.**

**SQL> SELECT PARTITION\_NAME,NUM\_ROWS FROM USER\_TAB\_PARTITIONS WHERE TABLE\_NAME='DATE\_INFO';**

**PARTITION\_NAME NUM\_ROWS**

**------------------------------ ----------**

**P1 0**

**P2 1**

**P3 0**

**P4 0**

**P5 2**

**P6 0**

**6 rows selected.**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

***QUERY 6***

CREATE TABLE SUPPLIER\_PARTS

(

SUPPLIER\_ID NUMBER,

PARTNUM NUMBER,

QUANTITY NUMBER

)

PARTITION BY RANGE(SUPPLIER\_ID,PARTNUM)

(

PARTITION P1 VALUES LESS THAN(5,100),

PARTITION P2 VALUES LESS THAN(5,150),

PARTITION P3 VALUES LESS THAN(10,100),

PARTITION P4 VALUES LESS THAN(10,150),

PARTITION P5 VALUES LESS THAN(MAXVALUE,MAXVALUE)

);

INSERT INTO SUPPLIER\_PARTS VALUES(5,5,1000);

INSERT INTO SUPPLIER\_PARTS VALUES(5,150,1000);

INSERT INTO SUPPLIER\_PARTS VALUES(10,100,1000);

**SQL> INSERT INTO SUPPLIER\_PARTS VALUES(5,5,1000);**

**1 row created.**

**SQL> INSERT INTO SUPPLIER\_PARTS VALUES(5,150,1000);**

**1 row created.**

**SQL> INSERT INTO SUPPLIER\_PARTS VALUES(10,10,1000);**

**1 row created.**

**SQL> EXEC DBMS\_STATS.GATHER\_TABLE\_STATS('PRASAD','SUPPLIER\_PARTS');**

**PL/SQL procedure successfully completed.**

**SQL> SELECT PARTITION\_NAME,NUM\_ROWS FROM USER\_TAB\_PARTITIONS WHERE TABLE\_NAME='SUPPLIER\_PARTS';**

**PARTITION\_NAME NUM\_ROWS**

**------------------------------ ----------**

**P1 1**

**P2 0**

**P3 2**

**P4 0**

**P5 0**

**SQL> INSERT INTO SUPPLIER\_PARTS VALUES(10,100,1000);**

**1 row created.**

**SQL> INSERT INTO SUPPLIER\_PARTS VALUES(10,150,1000);**

**1 row created.**

**SQL> EXEC DBMS\_STATS.GATHER\_TABLE\_STATS('PRASAD','SUPPLIER\_PARTS');**

**PL/SQL procedure successfully completed.**

**SQL> SELECT PARTITION\_NAME,NUM\_ROWS FROM USER\_TAB\_PARTITIONS WHERE TABLE\_NAME='SUPPLIER\_PARTS';**

**PARTITION\_NAME NUM\_ROWS**

**------------------------------ ----------**

**P1 1**

**P2 0**

**P3 2**

**P4 1**

**P5 1**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

***QUERY 7***

CREATE TABLE SALES

(

PROD\_ID NUMBER,

CUST\_ID NUMBER,

PROMO\_ID NUMBER,

QUANTITY\_SOLD NUMBER,

AMOUNT\_SOLD NUMBER,

MONTHS NUMBER

)

PARTITION BY RANGE(MONTHS)

INTERVAL(1)

(

PARTITION P1 VALUES LESS THAN(4),

PARTITION P2 VALUES LESS THAN(8)

);

INSERT INTO SALES VALUES(1,2,3,2,100,3);

INSERT INTO SALES VALUES(2,3,4,5,100,4);

INSERT INTO SALES VALUES(5,3,1,6,140,8);

**SQL> INSERT INTO SALES VALUES(1,2,3,2,100,3);**

**1 row created.**

**SQL> INSERT INTO SALES VALUES(2,3,4,5,100,4);**

**1 row created.**

**SQL> INSERT INTO SALES VALUES(5,3,1,6,140,8);**

**1 row created.**

**SQL> SELECT \* FROM SALES PARTITION(P1);**

**PROD\_ID CUST\_ID PROMO\_ID QUANTITY\_SOLD AMOUNT\_SOLD MONTHS**

**---------- ---------- ---------- ------------- ----------- ----------**

**1 2 3 2 100 3**

**SQL> SELECT \* FROM SALES PARTITION(P2);**

**PROD\_ID CUST\_ID PROMO\_ID QUANTITY\_SOLD AMOUNT\_SOLD MONTHS**

**---------- ---------- ---------- ------------- ----------- ----------**

**2 3 4 5 100 4**

**SQL> EXEC DBMS\_STATS.GATHER\_TABLE\_STATS('PRASAD','SALES');**

**PL/SQL procedure successfully completed.**

**SQL> SELECT PARTITION\_NAME,NUM\_ROWS FROM USER\_TAB\_PARTITIONS WHERE TABLE\_NAME='SALES';**

**PARTITION\_NAME NUM\_ROWS**

**------------------------------ ----------**

**P1 1**

**P2 1**

**SYS\_P21 1**

**SQL> INSERT INTO SALES VALUES(2,3,4,5,100,12);**

**1 row created.**

**SQL> EXEC DBMS\_STATS.GATHER\_TABLE\_STATS('PRASAD','SALES');**

**PL/SQL procedure successfully completed.**

**SQL> SELECT PARTITION\_NAME,NUM\_ROWS FROM USER\_TAB\_PARTITIONS WHERE TABLE\_NAME='SALES';**

**PARTITION\_NAME NUM\_ROWS**

**------------------------------ ----------**

**P1 1**

**P2 1**

**SYS\_P21 1**

**SYS\_P22 1**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

***QUERY 8***

CREATE TABLE ORDERS

(

ORDER\_ID NUMBER PRIMARY KEY,

ORDER\_DATE DATE NOT NULL,

CUST\_ID NUMBER NOT NULL,

SHIPPER\_ID NUMBER NOT NULL

)

PARTITION BY RANGE(ORDER\_DATE)

(

PARTITION P1 VALUES LESS THAN(TO\_DATE('01-APR-2018','DD-MON-YYYY')),

PARTITION P2 VALUES LESS THAN(TO\_DATE('01-JUL-2018','DD-MON-YYYY')),

PARTITION P3 VALUES LESS THAN(TO\_DATE('01-OCT-2018','DD-MON-YYYY'))

);

CREATE TABLE ORDER\_ITEMS

(

ORDER\_ID NUMBER NOT NULL,

PROD\_ID NUMBER NOT NULL,

PRICE NUMBER NOT NULL,

QUANTITY NUMBER NOT NULL,

CONSTRAINT ORDER\_ID\_FK FOREIGN KEY(ORDER\_ID) REFERENCES ORDERS

)

PARTITION BY REFERENCE(ORDER\_ID\_FK);

INSERT INTO ORDERS VALUES(100,'05-FEB-2018',12,13);

INSERT INTO ORDERS VALUES(101,'12-SEP-2018',14,90);

INSERT INTO ORDER\_ITEMS VALUES(100,120,40,100);

INSERT INTO ORDER\_ITEMS VALUES(101,56,20,120);

**SQL> INSERT INTO ORDERS VALUES(100,'05-FEB-2018',12,13);**

**1 row created.**

**SQL> INSERT INTO ORDERS VALUES(101,'12-SEP-2018',14,90);**

**1 row created.**

**SQL> INSERT INTO ORDER\_ITEMS VALUES(100,120,40,100);**

**1 row created.**

**SQL> INSERT INTO ORDER\_ITEMS VALUES(101,56,20,120);**

**1 row created.**

**SQL> EXEC DBMS\_STATS.GATHER\_TABLE\_STATS('PRASAD','ORDERS');**

**PL/SQL procedure successfully completed.**

**SQL> SELECT PARTITION\_NAME,NUM\_ROWS FROM USER\_TAB\_PARTITIONS WHERE TABLE\_NAME='ORDERS';**

**PARTITION\_NAME NUM\_ROWS**

**------------------------------ ----------**

**P1 1**

**P2 0**

**P3 1**

ALTER TABLE ORDERS DROP PARTITION P1;

**SQL> ALTER TABLE ORDERS DROP PARTITION P1;**

**Table altered.**

**SQL> EXEC DBMS\_STATS.GATHER\_TABLE\_STATS('PRASAD','ORDER\_ITEMS');**

**PL/SQL procedure successfully completed.**

**SQL> SELECT PARTITION\_NAME,NUM\_ROWS FROM USER\_TAB\_PARTITIONS WHERE TABLE\_NAME='ORDER\_ITEMS';**

**PARTITION\_NAME NUM\_ROWS**

**------------------------------ ----------**

**P2 0**

**P3 1**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

***QUERY 9***

CREATE TABLE EMPLOYEE

(

EMP\_ID NUMBER,

EMP\_NAME VARCHAR2(25),

FIXED\_SAL NUMBER,

VARIABLE\_SAL NUMBER,

TOTAL\_SAL NUMBER GENERATED ALWAYS AS (FIXED\_SAL+VARIABLE\_SAL) VIRTUAL

)

PARTITION BY RANGE(TOTAL\_SAL)

(

PARTITION P1 VALUES LESS THAN(25000),

PARTITION P2 VALUES LESS THAN(50000),

PARTITION P3 VALUES LESS THAN(75000),

PARTITION P4 VALUES LESS THAN(MAXVALUE)

);

INSERT INTO EMPLOYEE(EMP\_ID,EMP\_NAME,FIXED\_SAL,VARIABLE\_SAL) VALUES(1,'PRASAD',25000,200);

INSERT INTO EMPLOYEE(EMP\_ID,EMP\_NAME,FIXED\_SAL,VARIABLE\_SAL) VALUES(2,'PRASAD1',75000,100);

**SQL> INSERT INTO EMPLOYEE(EMP\_ID,EMP\_NAME,FIXED\_SAL,VARIABLE\_SAL) VALUES(1,'PRASAD',2500,200);**

**1 row created.**

**SQL> INSERT INTO EMPLOYEE(EMP\_ID,EMP\_NAME,FIXED\_SAL,VARIABLE\_SAL) VALUES(2,'PRASAD1',2530,100);**

**1 row created.**

**SQL> INSERT INTO EMPLOYEE(EMP\_ID,EMP\_NAME,FIXED\_SAL,VARIABLE\_SAL) VALUES(1,'NEERAJ',25000,200);**

**1 row created.**

**SQL> INSERT INTO EMPLOYEE(EMP\_ID,EMP\_NAME,FIXED\_SAL,VARIABLE\_SAL) VALUES(2,'NEERAJ1',75000,100);**

**1 row created.**

**SQL> EXEC DBMS\_STATS.GATHER\_TABLE\_STATS('PRASAD','EMPLOYEE');**

**PL/SQL procedure successfully completed.**

**SQL> SELECT PARTITION\_NAME,NUM\_ROWS FROM USER\_TAB\_PARTITIONS WHERE TABLE\_NAME='EMPLOYEE';**

**PARTITION\_NAME NUM\_ROWS**

**------------------------------ ----------**

**P1 2**

**P2 1**

**P3 0**

**P4 1**

**SQL> SELECT \* FROM EMPLOYEE PARTITION(P2);**

**EMP\_ID EMP\_NAME FIXED\_SAL VARIABLE\_SAL TOTAL\_SAL**

**---------- ------------------------- ---------- ------------ ----------**

**1 NEERAJ 25000 200 25200**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

***QUERY 10***

CREATE TABLE CUSTOMER

(

CUST\_ID NUMBER,

CUST\_NAME VARCHAR2(25),

CUST\_STATE VARCHAR2(40),

TIME\_ID DATE

)

PARTITION BY LIST(CUST\_STATE)

SUBPARTITION BY RANGE (TIME\_ID)

SUBPARTITION TEMPLATE(

SUBPARTITION OLD\_V VALUES LESS THAN ('01-JAN-2005'),

SUBPARTITION ACQUIRED VALUES LESS THAN ('01-JAN-2010'),

SUBPARTITION RECENT VALUES LESS THAN ('01-JAN-2015'),

SUBPARTITION UNKNOWNS VALUES LESS THAN (MAXVALUE)

)

(

PARTITION WEST VALUES ('MH', 'GJ'),

PARTITION SOUTH VALUES ('TN', 'AP'),

PARTITION NORTH VALUES ('UP', 'HP'),

PARTITION UNKNOWNS VALUES (DEFAULT)

);

INSERT INTO CUSTOMER VALUES(1,'NEERAJ','MH','02-FEB-2004');

INSERT INTO CUSTOMER VALUES(2,'NEERAJV','UP','02-FEB-2016');

**SQL> SELECT SUBPARTITION\_NAME,PARTITION\_NAME,NUM\_ROWS FROM USER\_TAB\_SUBPARTITIONS WHERE**

**TABLE\_NAME='CUSTOMER';**

**SUBPARTITION\_NAME PARTITION\_NAME NUM\_ROWS**

**------------------------------ ------------------------------ ----------**

**WEST\_OLD\_V WEST**

**WEST\_ACQUIRED WEST**

**WEST\_RECENT WEST**

**WEST\_UNKNOWNS WEST**

**SOUTH\_OLD\_V SOUTH**

**SOUTH\_ACQUIRED SOUTH**

**SOUTH\_RECENT SOUTH**

**SOUTH\_UNKNOWNS SOUTH**

**NORTH\_OLD\_V NORTH**

**NORTH\_ACQUIRED NORTH**

**NORTH\_RECENT NORTH**

**NORTH\_UNKNOWNS NORTH**

**UNKNOWNS\_OLD\_V UNKNOWNS**

**UNKNOWNS\_ACQUIRED UNKNOWNS**

**UNKNOWNS\_RECENT UNKNOWNS**

**UNKNOWNS\_UNKNOWNS UNKNOWNS**

**16 rows selected.**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***