**Partitioning**

| **Maintenance Operation** | **Range Composite Range-\*** |
| --- | --- |
| [Adding Partitions](http://docs.oracle.com/cd/B28359_01/server.111/b32024/part_admin.htm#i1007318) | ADD PARTITION |
| [Coalescing Partitions](http://docs.oracle.com/cd/B28359_01/server.111/b32024/part_admin.htm#i1007442) | N/A |
| [Dropping Partitions](http://docs.oracle.com/cd/B28359_01/server.111/b32024/part_admin.htm#i1007479) | DROP PARTITION |
| [Merging Partitions](http://docs.oracle.com/cd/B28359_01/server.111/b32024/part_admin.htm#i1007638) | MERGE PARTITIONS |
| [Moving Partitions](http://docs.oracle.com/cd/B28359_01/server.111/b32024/part_admin.htm#i1007920) | MOVE PARTITION |
| [Splitting Partitions](http://docs.oracle.com/cd/B28359_01/server.111/b32024/part_admin.htm#i1008028) | SPLIT PARTITION |
| [Truncating Partitions](http://docs.oracle.com/cd/B28359_01/server.111/b32024/part_admin.htm#i1008226) | TRUNCATE PARTITION |

**Adding partitions**

*/\* Formatted on 7/24/2013 2:32:06 PM (QP5 v5.139.911.3011) \*/*

*--select \* from dual*

CREATE TABLE currency (TYPE VARCHAR2 (10), VALUE NUMBER (7, 2))

PARTITION BY RANGE (VALUE)

(PARTITION part\_1

VALUES LESS THAN (8000),

PARTITION part\_2

VALUES LESS THAN (50000))

/

INSERT INTO currency

VALUES ('AUD', 8152.62);

INSERT INTO currency

VALUES ('BGN', 5990.66);

INSERT INTO currency

VALUES ('UAH', 1087.96);

INSERT INTO currency

VALUES ('DKK', 1570.95);

INSERT INTO currency

VALUES ('USD', 8850.00);

INSERT INTO currency

VALUES ('EUR', 11720.00);

INSERT INTO currency

VALUES ('PLN', 2785.47);

INSERT INTO currency

VALUES ('ISK', 73.52);

INSERT INTO currency

VALUES ('CAD', 8593.48);

INSERT INTO currency

VALUES ('CNY', 1442.33);

INSERT INTO currency

VALUES ('KWD', 31065.71);

INSERT INTO currency

VALUES ('LVL', 16674.52);

INSERT INTO currency

VALUES ('LTL', 3393.47);

INSERT INTO currency

VALUES ('MDL', 724.81);

INSERT INTO currency

VALUES ('NOK', 1503.64);

INSERT INTO currency

VALUES ('RUB', 273.50);

INSERT INTO currency

VALUES ('XDR', 13350.31);

INSERT INTO currency

VALUES ('SGD', 6986.66);

INSERT INTO currency

VALUES ('KGS', 180.48);

INSERT INTO currency

VALUES ('KZT', 57.75);

INSERT INTO currency

VALUES ('TRY', 4644.21);

INSERT INTO currency

VALUES ('GBP', 13600.24);

INSERT INTO currency

VALUES ('CZK', 451.51);

INSERT INTO currency

VALUES ('SEK', 1370.79);

INSERT INTO currency

VALUES ('CHF', 9454.62);

**Result**

|  |  |  |
| --- | --- | --- |
| SELECT \* FROM currency; | SELECT \*  FROM currency PARTITION (part\_1); | SELECT \*  FROM currency PARTITION (part\_2); |
|  |  |  |

**Drop partition**

ALTER TABLE currency DROP PARTITION part\_1;

|  |  |  |
| --- | --- | --- |
| SELECT \* FROM currency; | SELECT \*  FROM currency PARTITION (part\_1); | SELECT \*  FROM currency PARTITION (part\_2); |
|  | ORA-02149: Specified partition does not exist |  |

**Merging partition**

CREATE TABLE currency (TYPE VARCHAR2 (10), VALUE NUMBER (7, 2))

PARTITION BY RANGE (VALUE)

(PARTITION part\_1

VALUES LESS THAN (1000),

PARTITION part\_2

VALUES LESS THAN (5000),

PARTITION part\_3

VALUES LESS THAN (8000),

PARTITION part\_4

VALUES LESS THAN (50000))

/

ALTER TABLE currency

MERGE PARTITIONS part\_1, part\_2 INTO PARTITION part\_5

;

|  |  |  |
| --- | --- | --- |
| SELECT \* FROM currency; | SELECT \*  FROM currency PARTITION (part\_1);  SELECT \*  FROM currency PARTITION (part\_2); | SELECT \*  FROM currency PARTITION (part\_5); |
|  | ORA-02149: Specified partition does not exist |  |

**Moving partition**

CREATE TABLESPACE ts\_1

DATAFILE 'ts\_1.f'

SIZE 10M AUTOEXTEND ON;

CREATE TABLESPACE ts\_2

DATAFILE 'ts\_2.f'

SIZE 10M AUTOEXTEND ON;

CREATE TABLE currency (TYPE VARCHAR2 (10), VALUE NUMBER (7, 2))

PARTITION BY RANGE (VALUE)

(PARTITION part\_1

VALUES LESS THAN (1000)

TABLESPACE ts\_1,

PARTITION part\_2

VALUES LESS THAN (5000)

TABLESPACE ts\_1,

PARTITION part\_3

VALUES LESS THAN (8000)

TABLESPACE ts\_2,

PARTITION part\_4

VALUES LESS THAN (50000)

TABLESPACE ts\_2)

/

ALTER TABLE currency MOVE PARTITION part\_1

TABLESPACE ts\_2 NOLOGGING COMPRESS;

ALTER TABLESPACE ts\_2 OFFLINE;

|  |  |  |
| --- | --- | --- |
| SELECT \*  FROM currency PARTITION (part\_1);  **BEFORE ALTER TABLESPACE ts\_2 OFFLINE;** | SELECT \*  FROM currency PARTITION (part\_2); | SELECT \*  FROM currency PARTITION (part\_1); |
|  |  | ORA-00376: file 14 cannot be read at this time  ORA-01110: data file 14: '/oracle/app/oracle/product/12.0/dbs/ts\_2.f' |

**Splitting partition**

CREATE TABLE currency (TYPE VARCHAR2 (10), VALUE NUMBER (7, 2))

PARTITION BY RANGE (VALUE)

(PARTITION part\_1

VALUES LESS THAN (8000),

PARTITION part\_2

VALUES LESS THAN (50000))

/

ALTER TABLE currency SPLIT PARTITION

part\_1 at (1000) INTO ( PARTITION

part\_01, PARTITION part\_02);

|  |  |  |
| --- | --- | --- |
| SELECT \*  FROM currency PARTITION (part\_01); | SELECT \*  FROM currency PARTITION (part\_02); | SELECT \*  FROM currency PARTITION (part\_2); |
|  |  |  |

**Truncating partition**

ALTER TABLE currency TRUNCATE PARTITION part\_2;

|  |  |
| --- | --- |
| SELECT \*  FROM currency; | SELECT \*  FROM currency PARTITION (part\_2); |
|  |  |