

Spool Generated For Class of Oracle By Satish K Yellanki

```
SQL> CREATE TABLE SampDept
 2 AS
 3 SELECT * FROM Dept
 4 /
```

Table created.

```
SQL> DESC Dept
```

Name	Null?	Type
DEPTNO	NOT NULL	NUMBER(2)
DNAME		VARCHAR2(14)
LOC		VARCHAR2(13)

```
SQL> DESC SampDept
```

Name	Null?	Type
DEPTNO	NOT NULL	NUMBER(2)
DNAME		VARCHAR2(14)
LOC		VARCHAR2(13)

```
SQL> SELECT * FROM SampDept;
```

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

```
SQL> CREATE TABLE SampDept1(
```

```
 2
 3                               DeptID,
 4                               DeptName,
 5                               Place
 6 AS
 7 SELECT * FROM Dept
 8 /
```

Table created.

```
SQL> DESC SampDept1
```

Name	Null?	Type
DEPTID	NOT NULL	NUMBER(2)
DEPTNAME		VARCHAR2(14)
PLACE		VARCHAR2(13)

```
SQL> SELECT * FROM SampDept1;
```

DEPTID	DEPTNAME	PLACE
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10 ACCOUNTING NEW YORK
20 RESEARCH DALLAS
30 SALES CHICAGO
40 OPERATIONS BOSTON

```
SQL> CREATE TABLE SampDept2
 2 AS
 3 SELECT Deptno, Dname
 4 FROM Dept
 5 /
```

Table created.

```
SQL> DESC SampDept2
```

Name	Null?	Type
DEPTNO	NOT NULL	NUMBER(2)
DNAME		VARCHAR2(14)

```
SQL> CREATE TABLE SampDept3
```

```
 2 AS
 3 SELECT * FROM Dept
 4 WHERE 1 = 2
 5 /
```

Table created.

```
SQL> DESC SampDept3
```

Name	Null?	Type
DEPTNO	NOT NULL	NUMBER(2)
DNAME		VARCHAR2(14)
LOC		VARCHAR2(13)

```
SQL> SELECT * FROM SampDept3;
```

no rows selected

```
SQL> CREATE TABLE SampleTablePart
```

```
 2 (
 3 SampID NUMBER(4)
 4 CONSTRAINT SampIDPK PRIMARY KEY,
 5 SampName VARCHAR2(20)
 6 CONSTRAINT SampNameNN NOT NULL
 7 CONSTRAINT SampNameCHK
 8 CHECK(SampName = UPPER(SampName)),
 9 SampDate DATE DEFAULT SYSDATE
10 CONSTRAINT SampdateNN NOT NULL,
11 SampDesc VARCHAR2(4000)
12 DEFAULT 'NOT PROVIDED'
13 )
14 PARTITION BY RANGE(SampID)
```

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```
15 (  
16 PARTITION SampIDPart1  
17 VALUES LESS THAN (500),  
18 PARTITION SampIDPart2  
19 VALUES LESS THAN (1000),  
20 PARTITION SampIDPart3  
21 VALUES LESS THAN (2000),  
22 PARTITION SampIDPart4  
23 VALUES LESS THAN (3000),  
24 PARTITION SampIDPart5  
25 VALUES LESS THAN (4000),  
26 PARTITION SampIDPart6  
27 VALUES LESS THAN (MAXVALUE)  
28 );
```

Table created.

SQL> cl scr

```
CREATE TABLE EmpTableHash  
(  
  EmpNo NUMBER(6)  
  CONSTRAINT EmpNOPK PRIMARY KEY,  
  EName VARCHAR2(20)  
  DEFAULT 'NOT PROVIDED'  
  CONSTRAINT ENameNN NOT NULL  
  CONSTRAINT ENameCHK CHECK(EName = UPPER(EName)),  
  Job VARCHAR2(30)  
  DEFAULT 'NOT MENTIONED'  
  CONSTRAINT SampdateNN NOT NULL  
  CONSTRAINT JobCHKUpper CHECK(Job = UPPER(Job))  
  CONSTRAINT JobCHKList CHECK  
    (  
      Job IN  
        (  
          'PRESIDENT',  
          'ANALYST',  
          'MANAGER',  
          'SALESMAN',  
          'CLERK'  
        )  
    ),  
  DeptNo NUMBER(2)  
  CONSTRAINT DeptnoCHKRange  
  CHECK(DeptNo BETWEEN 10 AND 99)  
  CONSTRAINT DeptnoCHKList  
  CHECK(DeptNo IN(10, 20, 30, 40, 50, 60, 70, 80, 90)),  
  MGRID NUMBER(6)  
  CONSTRAINT MGRIDFKSelf  
  REFERENCES EmpTableHash(EmpNo)  
  ON DELETE SET NULL,  
  HireDate DATE
```

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```
DEFAULT SYSDATE
CONSTRAINT HireDateNN NOT NULL,
Sal NUMBER(8,2)
DEFAULT 10000
CONSTRAINT SaINN NOT NULL
CONSTRAINT SalChkRange CHECK(Sal BETWEEN 10000 AND 150000),
Comm NUMBER(7,2)
DEFAULT NULL
CONSTRAINT CommNN NOT NULL
CONSTRAINT CommChkRange CHECK(Comm BETWEEN 0 AND 25000),
CONSTRAINT DeptNOFKHASH
FOREIGN KEY(DeptNo)
REFERENCES Dept(Deptno)
ON DELETE CASCADE,
CONSTRAINT TotalSalaryCHK
CHECK(Sal + Comm <= 175000)
)
PARTITION BY HASH(DeptNO)
PARTITIONS 9
```

CREATE TABLE EmpSampleList1

```
(
EmpNo NUMBER(6)
CONSTRAINT EmpNOPK1 PRIMARY KEY,
ENAME VARCHAR2(20)
DEFAULT 'NOT PROVIDED'
CONSTRAINT ENameNN1 NOT NULL
CONSTRAINT ENameCHK1
CHECK(ENAME = UPPER(ENAME)),
Job VARCHAR2(30)
DEFAULT 'NOT MENTIONED'
CONSTRAINT SampdateNN1 NOT NULL
CONSTRAINT JobCHKUpper1
CHECK(Job = UPPER(Job))
CONSTRAINT JobCHKList1 CHECK
CONSTRAINT JobCHKList CHECK
(
Job IN
(
'PRESIDENT',
'ANALYST',
'MANAGER',
'SALESMAN',
'CLERK'
)
),
DeptNo NUMBER(2)
CONSTRAINT DeptnoCHKRange1
CHECK(DeptNo BETWEEN 10 AND 99)
CONSTRAINT DeptnoCHKList1
CHECK(DeptNo IN(10,20,30,40,50,60,70,80,90)),
MGRID NUMBER(6)
```

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```
CONSTRAINT MGRIDFKSelf1
REFERENCES EmpSampleList(EmpNo)
ON DELETE SET NULL,
HireDate DATE
DEFAULT SYSDATE
CONSTRAINT HireDateNN1 NOT NULL,
Sal NUMBER(8,2)
DEFAULT 10000
CONSTRAINT SalINN1 NOT NULL
CONSTRAINT SalChkRange1
CHECK(Sal BETWEEN 10000 AND 150000),
Comm NUMBER(7,2)
DEFAULT NULL
CONSTRAINT CommNN1 NOT NULL
CONSTRAINT CommChkRange1
CHECK(Comm BETWEEN 0 AND 25000),
CONSTRAINT DeptNOFKHASH1
FOREIGN KEY(DeptNo)
REFERENCES Dept(Deptno)
ON DELETE CASCADE,
CONSTRAINT TotalSalaryCHK1
CHECK(Sal + Comm <= 175000)
)
PARTITION BY LIST(Job)
(
PARTITION JPresident
VALUES('PRESIDENT'),
PARTITION JAnalyst
VALUES('ANALYST'),
PARTITION JManager
VALUES('MANAGER'),
PARTITION JSalesman
VALUES('SALESMAN'),
PARTITION JClerk
VALUES('CLERK')
);
```

```
CREATE TABLE EmpSampleList
(
EmpNo NUMBER(6)
CONSTRAINT EmpNOPK PRIMARY KEY,
ENAME VARCHAR2(20)
DEFAULT 'NOT PROVIDED'
CONSTRAINT ENameNN NOT NULL
CONSTRAINT ENameCHK
CHECK(ENAME = UPPER(ENAME)),
Job VARCHAR2(30)
DEFAULT 'NOT MENTIONED'
CONSTRAINT SampdateNN NOT NULL
CONSTRAINT JobCHKUpper
CHECK(Job = UPPER(Job))
CONSTRAINT JobCHKList CHECK
```

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CONSTRAINT JobCHKList CHECK

```
(
    Job IN
    (
        'PRESIDENT',
        'ANALYST',
        'MANAGER',
        'SALESMAN',
        'CLERK'
    )
),
```

```
DeptNo NUMBER(2)
CONSTRAINT DeptnoCHKRange
CHECK(DeptNo BETWEEN 10 AND 99)
CONSTRAINT DeptnoCHKList
CHECK(DeptNo IN(10,20,30,40,50,60,70,80,90)),
MGRID NUMBER(6)
CONSTRAINT MGRIDFKSelf
REFERENCES EmpSampleList(EmpNo)
ON DELETE SET NULL,
HireDate DATE
DEFAULT SYSDATE
CONSTRAINT HireDateNN NOT NULL,
Sal NUMBER(8, 2)
DEFAULT 10000
CONSTRAINT SalINN NOT NULL
CONSTRAINT SalChkRange
CHECK(Sal BETWEEN 10000 AND 150000),
Comm NUMBER(7, 2)
DEFAULT NULL
CONSTRAINT CommNN NOT NULL
CONSTRAINT CommChkRange
CHECK(Comm BETWEEN 0 AND 25000),
CONSTRAINT DeptNOFKHASH
FOREIGN KEY(DeptNo)
REFERENCES Dept(Deptno)
ON DELETE CASCADE,
CONSTRAINT TotalSalaryCHK
CHECK(Sal + Comm <= 175000)
)
```

PARTITION BY LIST(Job)

```
(
PARTITION JPartList1
VALUES(
    'PRESIDENT',
    'ANALYST'
),
PARTITION JPartList2
VALUES(
    'MANAGER',
    'SALESMAN',
    'CLERK'
```

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```
);
)

CREATE TABLE EmpSampleSubPart
(
  EmpNo NUMBER(6)
  CONSTRAINT EmpNOPK2 PRIMARY KEY,
  EName VARCHAR2(20)
  DEFAULT 'NOT PROVIDED'
  CONSTRAINT ENameNN2 NOT NULL
  CONSTRAINT ENameCHK2
  CHECK(EName = UPPER(EName)),
  Job VARCHAR2(30)
  DEFAULT 'NOT MENTIONED'
  CONSTRAINT SampdateNN2 NOT NULL
  CONSTRAINT JobCHKUpper2
  CHECK(Job = UPPER(Job))
  CONSTRAINT JobCHKList2
  CONSTRAINT JobCHKList CHECK
      (
        Job IN
          (
            'PRESIDENT',
            'ANALYST',
            'MANAGER',
            'SALESMAN',
            'CLERK'
          )
      ),
  DeptNo NUMBER(2) CONSTRAINT
  DeptnoCHKRange2 CHECK(DeptNo BETWEEN 10 AND 99)
  CONSTRAINT DeptnoCHKList2
  CHECK(DeptNo IN(10,20,30,40,50,60,70,80,90)),
  MGRID NUMBER(6)
  CONSTRAINT MGRIDFKSelf2
  REFERENCES EmpSampleSubPart(EmpNo)
  ON DELETE SET NULL,
  HireDate DATE
  DEFAULT SYSDATE
  CONSTRAINT HireDateNN2 NOT NULL,
  Sal NUMBER(8, 2)
  DEFAULT 10000
  CONSTRAINT SalINN2 NOT NULL
  CONSTRAINT SalChkRange2
  CHECK(Sal BETWEEN 10000 AND 150000),
  Comm NUMBER(7, 2)
  DEFAULT NULL
  CONSTRAINT CommNN2 NOT NULL
  CONSTRAINT CommChkRange2
  CHECK(Comm BETWEEN 0 AND 25000),
  CONSTRAINT DeptNOFKSubPart2
  FOREIGN KEY(DeptNo)
```

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```
REFERENCES Dept(Deptno)
ON DELETE CASCADE,
CONSTRAINT TotalSalaryCHK2
CHECK(Sal + Comm <= 175000)
)
PARTITION BY RANGE(Ename)
SUBPARTITION BY HASH(Job)
SUBPARTITIONS 5
(
PARTITION NameP1
VALUES LESS THAN('G'),
PARTITION NAMEP2
VALUES LESS THAN('N'),
PARTITION NAMEP3
VALUES LESS THAN('T'),
PARTITION NAMEP4
VALUES LESS THAN(MAXVALUE)
)
/
```

```
ALTER TABLE SampleTablePart
SPLIT PARTITION SampIDPart6
AT(5000)
INTO(
PARTITION SampIDPart6,
PARTITION SampIDPart7
)
/
```

```
ALTER TABLE EmpSampleList
SPLIT PARTITION JPartList2
VALUES(
'MANAGER',
'SALESMAN'
)
INTO(
PARTITION MANAGER,
PARTITION SALESMAN
)
/
```

```
ALTER TABLE EmpSampleList
MERGE
PARTITIONS
MANAGER,
SALESMAN
INTO
PARTITION
JPARTLIST2
/
```

```
ALTER TABLE SampleTablePart
```


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```
MERGE  
    PARTITIONS  
        SampIDPart6,  
        SampIDPart7  
INTO  
    PARTITION  
        SampIDPart7  
/
```