

Spool File For Oracle Students Prepared By Mr.Balram

```
SQL> --DELETE Command--
SQL> DELETE FROM EMPLOYEES
      2 WHERE EMPNO=7936;
```

0 rows deleted.

```
SQL> DELETE FROM EMPLOYEES
      2 WHERE EMPNO >7934;
```

0 rows deleted.

```
SQL> DELETE FROM EMPLOYEES
      2 WHERE DEPTNO=30;
```

6 rows deleted.

```
SQL> SELECT * FROM EMPLOYEES;
```

| EMPNO | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPTNO |
|-------|--------|-----------|------|-----------|------|------|--------|
| 7369 | SMITH | CLERK | 7902 | 17-DEC-80 | 800 | | 20 |
| 7566 | JONES | MANAGER | 7839 | 02-APR-81 | | | 20 |
| 7782 | CLARK | MANAGER | 7839 | 09-JUN-81 | 3465 | | 20 |
| 7788 | SCOTT | ANALYST | 7566 | 19-APR-87 | 3000 | | 20 |
| 7839 | KING | PRESIDENT | | 17-NOV-81 | 3465 | | 20 |
| 7876 | ADAMS | CLERK | 7788 | 23-MAY-87 | 1100 | | 20 |
| 7902 | FORD | ANALYST | 7566 | 03-DEC-81 | 3000 | | 20 |
| 7934 | MILLER | CLERK | 7782 | 23-JAN-82 | 3465 | | 20 |
| 7782 | CLARK | MANAGER | 7839 | 09-JUN-81 | 3450 | | 10 |
| 7839 | KING | PRESIDENT | | 17-NOV-81 | 6000 | | 10 |
| 7934 | MILLER | CLERK | 7782 | 23-JAN-82 | 2300 | | 10 |

11 rows selected.

```
SQL> DELETE FROM EMPLOYEES
      2 WHERE DEPTNO=10;
```

3 rows deleted.

```
SQL> SELECT * FROM EMPLOYEES;
```

| EMPNO | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPTNO |
|-------|--------|-----------|------|-----------|------|------|--------|
| 7369 | SMITH | CLERK | 7902 | 17-DEC-80 | 800 | | 20 |
| 7566 | JONES | MANAGER | 7839 | 02-APR-81 | | | 20 |
| 7782 | CLARK | MANAGER | 7839 | 09-JUN-81 | 3465 | | 20 |
| 7788 | SCOTT | ANALYST | 7566 | 19-APR-87 | 3000 | | 20 |
| 7839 | KING | PRESIDENT | | 17-NOV-81 | 3465 | | 20 |
| 7876 | ADAMS | CLERK | 7788 | 23-MAY-87 | 1100 | | 20 |
| 7902 | FORD | ANALYST | 7566 | 03-DEC-81 | 3000 | | 20 |
| 7934 | MILLER | CLERK | 7782 | 23-JAN-82 | 3465 | | 20 |

8 rows selected.

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```
SQL> DELETE FROM EMPLOYEES
2  WHERE DEPTNO=
3  (
4  SELECT DEPTNO
5  FROM DEPT
6  WHERE DNAME='SALES'
7  );
```

0 rows deleted.

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> SELECT * FROM EMPLOYEES;
```

| EMPNO | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPTNO |
|-------|--------|-----------|------|-----------|------|------|--------|
| 7900 | JAMES | CLERK | 7698 | 03-DEC-81 | 1045 | | 30 |
| 7369 | SMITH | CLERK | 7902 | 17-DEC-80 | 800 | | 20 |
| 7499 | ALLEN | SALESMAN | 7698 | 20-FEB-81 | 1760 | 300 | 30 |
| 7521 | WARD | SALESMAN | 7698 | 22-FEB-81 | 1375 | 500 | 30 |
| 7566 | JONES | MANAGER | 7839 | 02-APR-81 | | | 20 |
| 7654 | MARTIN | SALESMAN | 7698 | 28-SEP-81 | 1375 | 1400 | 30 |
| 7698 | BLAKE | SALESMAN | 7839 | 01-MAY-81 | | | 30 |
| 7782 | CLARK | MANAGER | 7839 | 09-JUN-81 | 3465 | | 20 |
| 7788 | SCOTT | ANALYST | 7566 | 19-APR-87 | 3000 | | 20 |
| 7839 | KING | PRESIDENT | | 17-NOV-81 | 3465 | | 20 |
| 7844 | TURNER | SALESMAN | 7698 | 08-SEP-81 | 1650 | 0 | 30 |

| EMPNO | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPTNO |
|-------|--------|-----------|------|-----------|------|------|--------|
| 7876 | ADAMS | CLERK | 7788 | 23-MAY-87 | 1100 | | 20 |
| 7902 | FORD | ANALYST | 7566 | 03-DEC-81 | 3000 | | 20 |
| 7934 | MILLER | CLERK | 7782 | 23-JAN-82 | 3465 | | 20 |
| 7782 | CLARK | MANAGER | 7839 | 09-JUN-81 | 3450 | | 10 |
| 7839 | KING | PRESIDENT | | 17-NOV-81 | 6000 | | 10 |
| 7934 | MILLER | CLERK | 7782 | 23-JAN-82 | 2300 | | 10 |

17 rows selected.

```
SQL> DELETE FROM EMPLOYEES
2  WHERE DEPTNO=
3  (
4  SELECT DEPTNO
5  FROM DEPT
6  WHERE DNAME='SALES'
7  );
```

6 rows deleted.

```
SQL> SELECT * FROM EMPLOYEES;
```

| EMPNO | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPTNO |
|-------|-------|-----|-----|----------|-----|------|--------|
|-------|-------|-----|-----|----------|-----|------|--------|

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| | | | | | | |
|------|--------|-----------|------|-----------|------|----|
| 7369 | SMITH | CLERK | 7902 | 17-DEC-80 | 800 | 20 |
| 7566 | JONES | MANAGER | 7839 | 02-APR-81 | | 20 |
| 7782 | CLARK | MANAGER | 7839 | 09-JUN-81 | 3465 | 20 |
| 7788 | SCOTT | ANALYST | 7566 | 19-APR-87 | 3000 | 20 |
| 7839 | KING | PRESIDENT | | 17-NOV-81 | 3465 | 20 |
| 7876 | ADAMS | CLERK | 7788 | 23-MAY-87 | 1100 | 20 |
| 7902 | FORD | ANALYST | 7566 | 03-DEC-81 | 3000 | 20 |
| 7934 | MILLER | CLERK | 7782 | 23-JAN-82 | 3465 | 20 |
| 7782 | CLARK | MANAGER | 7839 | 09-JUN-81 | 3450 | 10 |
| 7839 | KING | PRESIDENT | | 17-NOV-81 | 6000 | 10 |
| 7934 | MILLER | CLERK | 7782 | 23-JAN-82 | 2300 | 10 |

11 rows selected.

```
SQL> ----SAVEPOINT-----
SQL> SAVEPOINT DEPTDEL;
```

Savepoint created.

```
SQL> DELETE FROM DEPT
      2  WHERE DEPTNO=40;
```

1 row deleted.

```
SQL> SAVEPOINT EMPUPD;
```

Savepoint created.

```
SQL> UPDATE EMPLOYEES
      2  SET SAL =SAL + 1000
      3  WHERE DEPTNO=30;
```

6 rows updated.

```
SQL> UPDATE EMPLOYEES
      2  SET SAL = SAL + 1500
      3  WHERE ENAME='JONES';
```

1 row updated.

```
SQL> SAVEPOINT DEPTINS;
```

Savepoint created.

```
SQL> INSERT INTO DEPT
      2  VALUES (50, 'SHIPPING', 'CHENNAI');
```

1 row created.

```
SQL> INSERT INTO DEPT
      2  VALUES (60, 'CARGO', 'MUMBAI');
```

1 row created.

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```
SQL> INSERT INTO DEPT
  2  VALUES (70, 'COURIER', 'DELHI');
```

1 row created.

```
SQL> SAVEPOINT DEPTINS;
```

```
SQL> SAVEPOINT EMPDEL;
```

Savepoint created.

```
SQL> DELETE FROM EMPLOYEES
  2  WHERE EMPNO=7654;
```

1 row deleted.

```
SQL> COMMIT TO SAVEPOINT EMPDEL;
COMMIT TO SAVEPOINT EMPDEL
```

*

ERROR at line 1:

ORA-02185: a token other than WORK follows COMMIT

```
SQL> ROLLBACK TO SAVEPOINT EMPDEL;
```

Rollback complete.

```
SQL> ROLLBACK TO SAVEPOINT EMPUPD;
```

Rollback complete.

```
SQL> SELECT * FROM DEPT;
```

| DEPTNO | DNAME | LOC |
|--------|------------|----------|
| 10 | ACCOUNTING | NEW YORK |
| 20 | RESEARCH | DALLAS |
| 30 | SALES | CHICAGO |

```
SQL> ROLLBACK TO SAVEPOINT DEPTDEL;
```

Rollback complete.

```
SQL> SELECT * FROM DEPT;
```

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

```
SQL>
```

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```
SQL> SELECT * FROM EMP;
```

| EMPNO | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPTNO |
|-------|--------|-----------|------|-----------|------|------|--------|
| 7900 | JAMES | CLERK | 7698 | 03-DEC-81 | 950 | | 30 |
| 7369 | SMITH | CLERK | 7902 | 17-DEC-80 | 800 | | 20 |
| 7499 | ALLEN | SALESMAN | 7698 | 20-FEB-81 | 1600 | 300 | 30 |
| 7521 | WARD | SALESMAN | 7698 | 22-FEB-81 | 1250 | 500 | 30 |
| 7566 | JONES | MANAGER | 7839 | 02-APR-81 | 2975 | | 20 |
| 7654 | MARTIN | SALESMAN | 7698 | 28-SEP-81 | 1250 | 1400 | 30 |
| 7698 | BLAKE | MANAGER | 7839 | 01-MAY-81 | 2850 | | 30 |
| 7782 | CLARK | MANAGER | 7839 | 09-JUN-81 | 2450 | | 10 |
| 7788 | SCOTT | ANALYST | 7566 | 19-APR-87 | 3000 | | 20 |
| 7839 | KING | PRESIDENT | | 17-NOV-81 | 5000 | | 10 |
| 7844 | TURNER | SALESMAN | 7698 | 08-SEP-81 | 1500 | 0 | 30 |

| EMPNO | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPTNO |
|-------|--------|---------|------|-----------|------|------|--------|
| 7876 | ADAMS | CLERK | 7788 | 23-MAY-87 | 1100 | | 20 |
| 7902 | FORD | ANALYST | 7566 | 03-DEC-81 | 3000 | | 20 |
| 7934 | MILLER | CLERK | 7782 | 23-JAN-82 | 1300 | | 10 |

14 rows selected.

```
SQL> ROLLBACK TO SAVEPOINT DEPTINS;
```

Rollback complete.

```
SQL> CL SCR
```

```
SQL> ----ALTERING THE TABLE-----
```

```
SQL> CREATE TABLE SAMPLEALT01
2  (
3  SAMPID NUMBER(2)
4  );
```

Table created.

```
SQL> ALTER TABLE SAMPLEALT01
2  ADD
3  (
4  SAMPNAME VARCHAR2(10)
5  DEFAULT 'NOT GIVEN'
6  CONSTRAINT SAMPLEALT01_SAMPNAME_NN NOT NULL
7  CONSTRAINT SAMPLEALT01_SAMPNAME_UNQ UNIQUE
8  CONSTRAINT SAMPLEALT01_SAMPNAME_CHK
9  CHECK (SAMPNAME=UPPER(SAMPNAME)),
10 SAMPDATE DATE
11 DEFAULT SYSDATE
12 CONSTRAINT SAMPLEALT01_SAMPDATE_NN NOT NULL,
13 CONSTRAINT SAMPLEALT01_SAMPID_PK PRIMARY KEY(SAMPID)
14 );
```

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Table altered.

```
SQL> DESC SAMPLEALT01;
```

| Name | Null? | Type |
|----------|----------|--------------|
| SAMPID | NOT NULL | NUMBER(2) |
| SAMPNAME | NOT NULL | VARCHAR2(10) |
| SAMPDATE | NOT NULL | DATE |

```
SQL> ALTER TABLE SAMPLEALT01
```

```
2  MODIFY
```

```
3  (
```

```
4  SAMPNAME VARCHAR2(20)
```

```
5  );
```

Table altered.

```
SQL> DESC SAMPLEALT01;
```

| Name | Null? | Type |
|----------|----------|--------------|
| SAMPID | NOT NULL | NUMBER(2) |
| SAMPNAME | NOT NULL | VARCHAR2(20) |
| SAMPDATE | NOT NULL | DATE |

```
SQL> ----DROPPING A COLUMN----
```

```
SQL>
```

```
SQL> ALTER TABLE SAMPLEALT01
```

```
2  DROP COLUMN(SAMPNAME,SAMPDATE);
```

```
DROP COLUMN(SAMPNAME,SAMPDATE)
```

```
*
```

```
ERROR at line 2:
```

```
ORA-00904: : invalid identifier
```

```
SQL> ALTER TABLE SAMPLEALT01
```

```
2  DROP COLUMN SAMPNAME;
```

Table altered.

```
SQL> CREATE TABLE SAMPLEALT02
```

```
2  (
```

```
3  SAMPID NUMBER(2),
```

```
4  SAMPNAME VARCHAR2(10),
```

```
5  SAMPDATE DATE,
```

```
6  SAMPDESC VARCHAR2(100),
```

```
7  TRDONEBY VARCHAR2(30)
```

```
8  );
```

Table created.

```
SQL> ALTER TABLE SAMPLEALT02
```

```
2  SET UNUSED (SAMPDESC,TRDONEBY,SAMPDATE);
```

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Table altered.

```
SQL> ALTER TABLE SAMPLEALT02
      2 DROP UNUSED COLUMNS;
```

Table altered.

```
SQL> SELECT * FROM TAB;
```

| TNAME | TABTYPE | CLUSTERID |
|-----------|---------|-----------|
| BONUS | TABLE | |
| CUSTOMER | TABLE | |
| DEPT | TABLE | |
| EMP | TABLE | |
| EMPLOYEES | TABLE | |
| EMP_SUM | TABLE | |
| ITEM | TABLE | |
| MYEMP01 | TABLE | |
| ORD | TABLE | |
| PRICE | TABLE | |
| PRODUCT | TABLE | |

| TNAME | TABTYPE | CLUSTERID |
|-------------|---------|-----------|
| SALGRADE | TABLE | |
| SAMPDEPT01 | TABLE | |
| SAMPDEPT02 | TABLE | |
| SAMPDEPT03 | TABLE | |
| SAMPDEPT04 | TABLE | |
| SAMPDEPT05 | TABLE | |
| SAMPLE | TABLE | |
| SAMPLEALT01 | TABLE | |
| SAMPLEALT02 | TABLE | |

20 rows selected.

```
SQL> DROP TABLE SAMPDEPT01;
```

Table dropped.

```
SQL> SELECT * FROM TAB;
```

| TNAME | TABTYPE | CLUSTERID |
|----------------------------------|---------|-----------|
| BIN\$L2y6nSgQRamLTNXbggu1zg==\$0 | TABLE | |
| BONUS | TABLE | |
| CUSTOMER | TABLE | |
| DEPT | TABLE | |
| EMP | TABLE | |
| EMPLOYEES | TABLE | |
| EMP_SUM | TABLE | |
| ITEM | TABLE | |

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| | |
|---------|-------|
| MYEMP01 | TABLE |
| ORD | TABLE |
| PRICE | TABLE |

| TNAME | TABTYPE | CLUSTERID |
|-------------|---------|-----------|
| PRODUCT | TABLE | |
| SALGRADE | TABLE | |
| SAMPDEPT02 | TABLE | |
| SAMPDEPT03 | TABLE | |
| SAMPDEPT04 | TABLE | |
| SAMPDEPT05 | TABLE | |
| SAMPLE | TABLE | |
| SAMPLEALT01 | TABLE | |
| SAMPLEALT02 | TABLE | |

20 rows selected.

SQL> DROP TABLE SAMPDEPT02;

Table dropped.

SQL> SELECT * FROM TAB;

| TNAME | TABTYPE | CLUSTERID |
|----------------------------------|---------|-----------|
| BIN\$L2y6nSgQRamLTNXbggu1zg==\$0 | TABLE | |
| BIN\$RpkkNpQzGGBmHmV/Yt/g==\$0 | TABLE | |
| BONUS | TABLE | |
| CUSTOMER | TABLE | |
| DEPT | TABLE | |
| EMP | TABLE | |
| EMPLOYEES | TABLE | |
| EMP_SUM | TABLE | |
| ITEM | TABLE | |
| MYEMP01 | TABLE | |
| ORD | TABLE | |

| TNAME | TABTYPE | CLUSTERID |
|-------------|---------|-----------|
| PRICE | TABLE | |
| PRODUCT | TABLE | |
| SALGRADE | TABLE | |
| SAMPDEPT03 | TABLE | |
| SAMPDEPT04 | TABLE | |
| SAMPDEPT05 | TABLE | |
| SAMPLE | TABLE | |
| SAMPLEALT01 | TABLE | |
| SAMPLEALT02 | TABLE | |

20 rows selected.

SQL> PURGE RECYCLEBIN;

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Recyclebin purged.

```
SQL> SELECT * FROM TAB;
```

| TNAME | TABTYPE | CLUSTERID |
|-----------|---------|-----------|
| BONUS | TABLE | |
| CUSTOMER | TABLE | |
| DEPT | TABLE | |
| EMP | TABLE | |
| EMPLOYEES | TABLE | |
| EMP_SUM | TABLE | |
| ITEM | TABLE | |
| MYEMP01 | TABLE | |
| ORD | TABLE | |
| PRICE | TABLE | |
| PRODUCT | TABLE | |

| TNAME | TABTYPE | CLUSTERID |
|-------------|---------|-----------|
| SALGRADE | TABLE | |
| SAMPDEPT03 | TABLE | |
| SAMPDEPT04 | TABLE | |
| SAMPDEPT05 | TABLE | |
| SAMPLE | TABLE | |
| SAMPLEALT01 | TABLE | |
| SAMPLEALT02 | TABLE | |

18 rows selected.

```
SQL> DROP TABLE SAMPDEPT03 PURGE;
```

Table dropped.

```
SQL> DROP TABLE DEPT;
```

```
DROP TABLE DEPT
```

*

ERROR at line 1:

ORA-02449: unique/primary keys in table referenced by foreign keys

```
SQL> RENAME DEPT TO DEPARTMENTS;
```

Table renamed.

```
SQL> SELECT * FROM DEPT;
```

```
SELECT * FROM DEPT
```

*

ERROR at line 1:

ORA-00942: table or view does not exist

```
SQL> RENAME DEPARTMENTS TO DEPT;
```

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Table renamed.

```
SQL> --TRUNCATING A TABLE--
SQL> CREATE TABLE SAMPLETRUNC
  2  (
  3    SAMPID NUMBER(2),
  4    SAMPNAME VARCHAR2(10),
  5    SAMPDATE DATE
  6  );
```

Table created.

```
SQL> BEGIN
  2  INSERT INTO SAMPLETRUNC
  3  VALUES (1, 'SAMPLE01', SYSDATE);
  4  INSERT INTO SAMPLETRUNC
  5  VALUES (2, 'SAMPLE02', SYSDATE);
  6  INSERT INTO SAMPLETRUNC
  7  VALUES (3, 'SAMPLE03', SYSDATE);
  8  INSERT INTO SAMPLETRUNC
  9  VALUES (4, 'SAMPLE04', SYSDATE);
 10  INSERT INTO SAMPLETRUNC
 11  VALUES (5, 'SAMPLE05', SYSDATE);
 12  COMMIT;
 13  END;
 14  /
```

PL/SQL procedure successfully completed.

```
SQL> SELECT * FROM SAMPLETRUNC;
```

| SAMPID | SAMPNAME | SAMPDATE |
|--------|----------|-----------|
| 1 | SAMPLE01 | 09-JAN-24 |
| 2 | SAMPLE02 | 09-JAN-24 |
| 3 | SAMPLE03 | 09-JAN-24 |
| 4 | SAMPLE04 | 09-JAN-24 |
| 5 | SAMPLE05 | 09-JAN-24 |

```
SQL> SELECT ROWID, SAMPID, SAMPNAME, SAMPDATE FROM SAMPLETRUNC;
```

| ROWID | SAMPID | SAMPNAME | SAMPDATE |
|--------------------|--------|----------|-----------|
| AAASpfAAEAAAAIcAAA | 1 | SAMPLE01 | 09-JAN-24 |
| AAASpfAAEAAAAIcAAB | 2 | SAMPLE02 | 09-JAN-24 |
| AAASpfAAEAAAAIcAAC | 3 | SAMPLE03 | 09-JAN-24 |
| AAASpfAAEAAAAIcAAD | 4 | SAMPLE04 | 09-JAN-24 |
| AAASpfAAEAAAAIcAAE | 5 | SAMPLE05 | 09-JAN-24 |

```
SQL> DELETE FROM SAMPLETRUNC
  2  WHERE SAMPID >3;
```

2 rows deleted.

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```
SQL> SELECT ROWID, SAMPID, SAMPNAME, SAMPDATE FROM SAMPLETRUNC;
```

| ROWID | SAMPID | SAMPNAME | SAMPDATE |
|----------------------|--------|----------|-----------|
| AAASpfAAEAAAAAICAAA | 1 | SAMPLE01 | 09-JAN-24 |
| AAASpfAAEAAAAAICAAAB | 2 | SAMPLE02 | 09-JAN-24 |
| AAASpfAAEAAAAAICAAC | 3 | SAMPLE03 | 09-JAN-24 |

```
SQL> COMMIT;
```

Commit complete.

```
SQL> INSERT INTO SAMPLETRUNC  
2 VALUES(10, 'SAMPLE10', SYSDATE);
```

1 row created.

```
SQL> COMMIT;
```

Commit complete.

```
SQL> SELECT ROWID, SAMPID, SAMPNAME, SAMPDATE FROM SAMPLETRUNC;
```

| ROWID | SAMPID | SAMPNAME | SAMPDATE |
|----------------------|--------|----------|-----------|
| AAASpfAAEAAAAAICAAA | 1 | SAMPLE01 | 09-JAN-24 |
| AAASpfAAEAAAAAICAAAB | 2 | SAMPLE02 | 09-JAN-24 |
| AAASpfAAEAAAAAICAAC | 3 | SAMPLE03 | 09-JAN-24 |
| AAASpfAAEAAAAAICAAF | 10 | SAMPLE10 | 09-JAN-24 |

```
SQL> TRUNCATE TABLE SAMPLETRUNC;
```

Table truncated.

```
SQL> SPOOL OFF
```