

EX-1 DATA TYPES AND OPERATORS

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SQL Plus
Version 21.3.0.0.0

SQL> CREATE TABLE EMPLOYEE(EMPID NUMBER(4),ENAME VARCHAR2(30),ADRESS VARCHAR2(50),SALARY NUMBER(20),DOJ DATE,DEPTID NUMBER(5));
Table created.

SQL> INSERT INTO EMPLOYEE VALUES(1001,'AARA','NAMAKKAL',20000,'03-JUN-1990',12345);
1 row created.

SQL> ALTER TABLE EMPLOYEE RENAME COLUMN ADRESS TO ADDRESS;
Table altered.

SQL> INSERT INTO EMPLOYEE VALUES(1002,'ARIYA','CHENNAI',35000,'28-AUG-1998',12349);
1 row created.

SQL> INSERT INTO EMPLOYEE VALUES(1002,'MEERA','SALEM',40000,'05-JAN-1999',12349);
1 row created.

SQL> INSERT INTO EMPLOYEE VALUES(1003,'NILA','COIMBATORE',36000,'17-NOV-2001',12345);
1 row created.

SQL> SELECT * FROM EMPLOYEE;

      EMPID ENAME
-----
ADDRESS                                SALARY DOJ
-----
DEPTID
-----
1001 AARA
NAMAKKAL
12345
20000 03-JUN-99
1002 ARIYA
CHENNAI
12349
35000 28-AUG-98
      EMPID ENAME
-----
ADDRESS                                SALARY DOJ
-----
DEPTID
-----
1002 MEERA
SALEM
12349
40000 05-JAN-99
```

```
SQL Plus

      EMPID ENAME
-----
ADDRESS                                SALARY DOJ
-----
DEPTID
-----
1002 MEERA
SALEM
12349
40000 05-JAN-99
1003 NILA
COIMBATORE
36000 17-NOV-01
      EMPID ENAME
-----
ADDRESS                                SALARY DOJ
-----
DEPTID
-----
12345

SQL> DESC EMPLOYEE;
Name                               Null?   Type
-----
EMPID                               NUMBER(4)
ENAME                               VARCHAR2(30)
ADDRESS                             VARCHAR2(50)
SALARY                              NUMBER(20)
DOJ                                  DATE
DEPTID                              NUMBER(5)

SQL> SELECT EMPID,ENAME,SALARY,(SALARY-2500) FROM EMPLOYEE;

      EMPID ENAME
-----
SALARY (SALARY-2500)
-----
1001 AARA
20000 17500
1002 ARIYA
35000 32500
1002 MEERA
40000 37500
1003 NILA
36000 33500

SQL> SELECT EMPID,ENAME,SALARY,(SALARY*25/100) FROM EMPLOYEE;

      EMPID ENAME
-----
SALARY (SALARY*25/100)
-----
1001 AARA
20000 5000
1002 ARIYA
35000 8750
1002 MEERA
40000 10000
1003 NILA
36000 9000

SQL> SELECT * FROM EMPLOYEE WHERE SALARY>30000;
```

```
SQL Plus
SQL> SELECT * FROM EMPLOYEE WHERE SALARY>30000;

      EMPID ENAME
-----
ADDRESS                SALARY DOJ
-----
DEPTID
-----
      1002 ARIYA
CHENNAI                35000 28-AUG-98
      12349

      1002 MEERA
SALEM                  40000 05-JAN-99
      12349

      EMPID ENAME
-----
ADDRESS                SALARY DOJ
-----
DEPTID
-----
      1003 NILA
COIMBATORE            36000 17-NOV-01
      12345

SQL> SELECT * FROM EMPLOYEE WHERE SALARY<25000;

      EMPID ENAME
-----
ADDRESS                SALARY DOJ
-----
DEPTID
-----
      1001 AARA
NAMAKKAL              20000 03-JUN-99
      12345

SQL>
```

```
SQL Plus
SQL> SELECT * FROM EMPLOYEE WHERE SALARY<=30000;

      EMPID ENAME
-----
ADDRESS                SALARY DOJ
-----
DEPTID
-----
      1002 ARIYA
CHENNAI                35000 28-AUG-98
      12349

      1002 MEERA
SALEM                  40000 05-JAN-99
      12349

      EMPID ENAME
-----
ADDRESS                SALARY DOJ
-----
DEPTID
-----
      1003 NILA
COIMBATORE            36000 17-NOV-01
      12345

SQL> SELECT * FROM EMPLOYEE WHERE SALARY<=30000;

      EMPID ENAME
-----
ADDRESS                SALARY DOJ
-----
DEPTID
-----
      1001 AARA
NAMAKKAL              20000 03-JUN-99
      12345

SQL> SELECT * FROM EMPLOYEE WHERE SALARY=40000 AND ADDRESS='SALEM';

      EMPID ENAME
-----
ADDRESS                SALARY DOJ
-----
DEPTID
-----
      1002 MEERA
```

```
SQL Plus
SQL> SELECT * FROM EMPLOYEE WHERE SALARY=40000 AND ADDRESS='SALEM';

  EMPID ENAME
-----
ADDRESS
-----
DEPTID
-----
    1002 MEERA
SALEM          40000 05-JAN-99
12349

SQL> SELECT * FROM EMPLOYEE WHERE SALARY=35000 OR ADDRESS='COIMBATORE';

  EMPID ENAME
-----
ADDRESS
-----
DEPTID
-----
    1002 ARIYA
CHENNAI        35000 28-AUG-98
12349

    1003 NILA
COIMBATORE     36000 17-NOV-01
12345

  EMPID ENAME
-----
ADDRESS
-----
DEPTID
-----

SQL> SELECT * FROM EMPLOYEE WHERE NOT ADDRESS='SALEM';

  EMPID ENAME
-----
ADDRESS
-----
DEPTID
-----
    1001 AARA
NAMAKKAL       20000 03-JUN-99
12345

    1002 ARIYA
CHENNAI        35000 28-AUG-98
12349
```

```
SQL Plus
ADDRESS
-----
DEPTID
-----
    1002 ARIYA
CHENNAI        35000 28-AUG-98
12349

    1003 NILA
COIMBATORE     36000 17-NOV-01
12345

  EMPID ENAME
-----
ADDRESS
-----
DEPTID
-----

SQL> SELECT * FROM EMPLOYEE WHERE NOT ADDRESS='SALEM';

  EMPID ENAME
-----
ADDRESS
-----
DEPTID
-----
    1001 AARA
NAMAKKAL       20000 03-JUN-99
12345

    1002 ARIYA
CHENNAI        35000 28-AUG-98
12349

  EMPID ENAME
-----
ADDRESS
-----
DEPTID
-----
    1003 NILA
COIMBATORE     36000 17-NOV-01
12345

SQL>
```