Constraints (3)

Exceptions Table Summarized

A table

```
CREATE TABLE Emp (
  empno NUMBER PRIMARY KEY,
  ename VARCHAR2(30),
  sal NUMBER,
  deptno NUMBER
);
```

Violating Tuples (I)

 To identify those tuples that violate a constraint whose activation failed, one can use the clause

```
EXCEPTIONS INTO Exceptions
```

Exceptions is a table that we should create and stores information about the violating tuples.

Violating Tuples (II)

Violating Tuples (cont.)

• First we have to create the **Exceptions** table:

```
CREATE TABLE Exceptions(
    row_id ROWID,
    owner VARCHAR2(30),
    table_name VARCHAR2(30),
    constraint VARCHAR2(30)
);
```

Then, we can query it:

Every tuple has a (pseudo) column of type rowid that is used to identify tuples.

row_id here will reference to rowid in the Emp table.

Besides the row_id, the name of the table, the table owner, as well as the name of the violated constraint are stored.

```
SELECT Emp.*, constraint
FROM Emp, Exceptions
WHERE Emp.rowid = Exceptions.row_id;
```