***Including Constraints(Validation on Table)***

**Practice 10 Solutions**

1. Add a table-level PRIMARY KEY constraint to the EMP table on the ID column. The constraint

should be named at creation. Name the constraint my\_emp\_id\_pk.

**ALTER TABLE emp**

**ADD CONSTRAINT my\_emp**\_**id**\_**pk PRIMARY KEY (id);**

2. Create a PRIMARY KEY constraint to the DEPT table using the ID column. The constraint should be named at creation. Name the constraint my\_deptid\_pk.

**ALTER TABLE dept**

**ADD CONSTRAINT my\_deptid\_pk PRIMARY KEY(id);**

3. Add a column DEPT\_ID to the EMP table. Add a foreign key reference on the EMP table that

ensures that the employee is not assigned to a nonexistent department.

Name the constraint my\_emp\_dept\_id\_fk.

**ALTER TABLE emp**

**ADD (dept\_id NUMBER(7));**

**ALTER TABLE emp**

**ADD CONSTRAINT my\_emp\_dept\_id\_fk**

**FOREIGN KEY (dept\_id) REFERENCES dept(id);**

4. Confirm that the constraints were added by querying the USER\_CONSTRAINTS view. Note the

types and names of the constraints. Save your statement text in a file called lab10\_4.sql.

**SELECT constraint\_name, constraint\_type**

**FROM user**\_**constraints**

**WHERE table**\_**name IN ('EMP', 'DEPT');**

5. Display the object names and types from the USER\_OBJECTS data dictionary view for the EMP

and DEPT tables. Notice that the new tables and a new index were created.

**SELECT object\_name, object\_type**

**FROM user\_objects**

**WHERE object\_name LIKE 'EMP%'**

**OR object\_name LIKE 'DEPT%';**

If you have time, complete the following exercise:

6. Modify the EMP table. Add a COMMISSION column of NUMBER data type, precision 2, scale 2.

Add a constraint to the commission column that ensures that a commission value is greater than

zero.

**ALTER TABLE EMP**

**ADD commission NUMBER(2,2)**

**CONSTRAINT my\_emp\_comm\_ck CHECK (commission >= 0;**