WORKING WITH CONSTRAINTS

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Find the Solution for the following:

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);

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|-------|--------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| EMPSS | NAME | VARCHAR2 | 50 | - | - | + | / | æ | - |
| | ID | NUMBER | 22 | 870 | 976 | 1 | - | - | 2T3 |

2. Create a PRIMAY KEY constraint to the DEPT table using the ID colum. The constraint should be named at creation. Name the constraint my_dept_id_pk.

ALTER TABLE DEPT ADD CONSTRAINT my_dept_id_pk PRIMARY KEY (ID);

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|-------|--------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| DEPTS | NAME | VARCHAR2 | 50 | - | - | 法 | / | + | = |
| | ID | NUMBER | 22 | _ | 150 | 1 | - | | _ |

3. Add a column DEPT_ID to the EMP table.

ALTER TABLE EMPSS ADD DEPT_ID NUMBER;

Add a foreign key reference on the EMP table that ensures that the employee is not assigned to nonexistent department. Name the constraint

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|-------|-----------|-----------|--------|-----------|-------|-------------|----------|---------|---------------|
| EMPSS | NAME | VARCHAR2 | 50 | : | - | 1-5 | / | - | :=: |
| | <u>ID</u> | NUMBER | 22 | (5) | - | 1 | 950 | 5 | \$ 5 % |
| | DEPT_ID | NUMBER | 22 | | (4) | ÷ | / | 2 | 120 |
| | | | | | | | | 1 | - 3 |

my_emp_dept_id_fk.

ALTER TABLE EMPSS

ADD CONSTRAINT my_emp_dept_id_fk

FOREIGN KEY (DEPT_ID)

REFERENCES DEPTS(ID);

4. 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);

| Object Type | TABLE Object | EMPSS | | | | | | | |
|--------------|--------------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
| EMPSS | NAME | VARCHAR2 | 50 | - | ÷ | - | / | ·+ | - |
| | <u>ID</u> | NUMBER | 22 | 2576 | ā | 1 | ā | 1.7 | 0.54 |
| | DEPT_ID | NUMBER | 22 | 2.25 | - | ÷ | ~ | | 12 |
| | COMMISSION | NUMBER | | 2 | 2 | - | / | - | - |
| | | | | | | | | 1 | - 4 |

ALTER TABLE EMP ADD CONSTRAINT chk_commission_positive CHECK (COMMISSION > 0);

| Object Type | TABLE Object | EMPSS | | | | | | | |
|--------------|--------------|-----------|--------|------------------|-------|-------------|----------|---------|------------------|
| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
| <u>EMPSS</u> | <u>NAME</u> | VARCHAR2 | 50 | i - i | - | = | / | ·+· | (-) |
| | <u>ID</u> | NUMBER | 22 | 2.50 | - | 1 | 54 | 8.32 | 0.54 |
| | DEPT_ID | NUMBER | 22 | 245 | - | ÷ | / | ~ | |
| | COMMISSION | NUMBER | - | 2 | 2 | ÷ | / | - | - |
| | | | | | | | | 1 | - 4 |