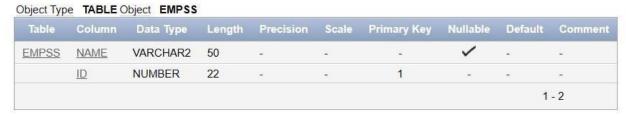
WORKING WITH CONSTRAINS

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Find the Solution for the following:

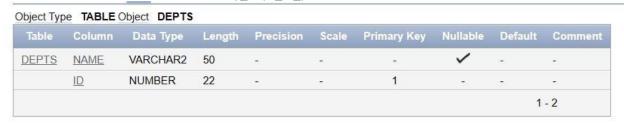
1. Add a table-level PRIMARY KEY constraint to the EMP table on the ID column. The constraint should be named at creation. Name the constraint my emp id pk.

ALTER TABLE EMP ADD CONSTRAINT my_emp_id_pk PRIMARY KEY (ID);



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);



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 nonexistent department. Name the constraint my_emp_dept_id_fk.

ALTER TABLE EMPSS
ADD DEPT_ID NUMBER;
ADD CONSTRAINT my_emp_dept_id_fk
FOREIGN KEY (DEPT_ID)
REFERENCES DEPTS(ID);

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|-------|-----------|-----------|--------|-----------|----------|-------------|----------|---------|---------|
| EMPSS | NAME | VARCHAR2 | 50 | 2 | <u>-</u> | 2 | / | =; | 2 |
| | <u>ID</u> | NUMBER | 22 | - | - | 1 | = | = | - |
| | DEPT_ID | NUMBER | 22 | <u>@</u> | 12 | 2 | ~ | 2.5 | 2 |
| | | | | | | | | 1 | - 3 |

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 |
| <u>EMPSS</u> | NAME | VARCHAR2 | 50 | | (-) | (4) | / | 2 | |
| | <u>ID</u> | NUMBER | 22 | - | (1) | 1 | (*) | = | - : |
| | DEPT_ID | NUMBER | 22 | _ | 12 | 923 | / | 2 | 2 |
| | COMMISSION | NUMBER | 25 | 2 | 2 | 12: | / | 12 | 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 |
| EMPSS | NAME | VARCHAR2 | 50 | - | - | 10: | / | 12 | |
| | <u>ID</u> | NUMBER | 22 | - | | 1 | - | - | - |
| | DEPT_ID | NUMBER | 22 | \$ 5 % | 117 | N T S | / | ·\$ | \$ 5 8 |
| | COMMISSION | NUMBER | - | 2 | 2 | 12.1 2.2 | / | 2 | 2 |
| | | | | | | | | 1 | - 4 |