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Exp no : 04 WORKING WITH CONSTRAINTS DATE

Date:21.08.2024

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	2	-	12	/	_	Ш
	<u>ID</u>	NUMBER	22	+	-	1	+	-	+

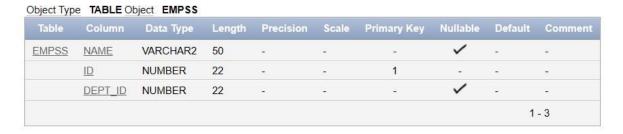
2. Create a PRIMAY KEY constraint to the DEPT table using the ID colum. The constraint should be named at creation. Name the constraint my\_dept\_id\_pk.

# 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	-	-	÷	/	-	-
	ID	NUMBER	22	1.5.	-	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 my\_emp\_dept\_id\_fk.

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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
<u>EMPSS</u>	NAME	VARCHAR2	50		-	2	/	2	
	<u>ID</u>	NUMBER	22	-		1		-	-
	DEPT_ID	NUMBER	22	-	-	(1 <u>11</u> )	/	2	_
	COMMISSION	NUMBER	-	2	2	121	/	12	
								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	-	-	101	/	12	-
	<u>ID</u>	NUMBER	22	-	-	1	-	;-	2 <b>-</b> 2
	DEPT_ID	NUMBER	22	:5%	-	1 <del>-</del>	~	<u> </u>	15%
	COMMISSION	NUMBER	2	2	2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	/	2	2
								1	- 4