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Exp no : 04

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WORKING WITH CONSTRAINTS

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
<u>EMPSS</u>	NAME	VARCHAR2	50	-		-	/	-	-
	ID	NUMBER	22	.=:	0.50	1	-	-	1.T.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
<u>DEPTS</u>	NAME	VARCHAR2	50	-	-	法	/	÷	-
	<u>ID</u>	NUMBER	22	-	150	1	=	9	5

3. Add a column DEPT_ID to the EMP table.

ALTER TABLE EMPSS ADD DEPT_ID NUMBER;

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMPSS	NAME	VARCHAR2	50	: -	-	100	/	-	
	<u>ID</u>	NUMBER	22	\$ 5 .8	1.7	1	950	5	(5 .)
	DEPT ID	NUMBER	22	-	(4)	-	/	_	-

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

C2 - Restricted use

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);

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMPSS	NAME	VARCHAR2	50		-	+	/	10 ÷ 11	-
	<u>ID</u>	NUMBER	22	2.78	-	1	7:	9. 3 9	1.54
	DEPT_ID	NUMBER	22	0.23	-	2	~	2.	: <u>#</u>
	COMMISSION	NUMBER	_	2	2		/	-	-

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>	NAME	VARCHAR2	50	: - :	÷	-	/	();	(- -
	<u>ID</u>	NUMBER	22	0.54	-	1		(E)	0. 5 2
	DEPT_ID	NUMBER	22	- 25	2	2	~	-	: =:
8.	COMMISSION	NUMBER	-	2	2	£	/	4	-
								1	- 4