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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	-		-	/	iii.	-
	ID	NUMBER	22	6 .	0.54	1	-	-	0 7 0

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		.=:	t t	/	÷	-
	ID	NUMBER	22		150	1	-	-	-

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	.=	(+)	(5)	/	-	
	<u>ID</u>	NUMBER	22	151		1	97.0	5	150
	DEPT ID	NUMBER	22		(4)	144	/	2	120

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	TABLE Object	District of the Control of the Contr	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
lable	Column	Data Type	Lengui	Trecision	Joure	Trimary rey	reditable	Deludit	Commen
<u>EMPSS</u>	NAME	VARCHAR2	50	-	±	+	/	-	-
	<u>ID</u>	NUMBER	22	1.53	-	1	50	15 2 5	1.57
	DEPT_ID	NUMBER	22	: <u>2</u> 5	-	÷	~	-	: 25
	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
EMPSS	NAME	VARCHAR2	50	<u> </u>	-	-	/	3 .5 3	- -
	<u>ID</u>	NUMBER	22	2.53	ē	1	Sa	5 <u>7</u> 9	15
	DEPT_ID	NUMBER	22	2.25	-	₽	~		225
	COMMISSION	NUMBER	-	2	2	-	/	-	: -:
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