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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
EMPSS	NAME	VARCHAR2	50	+	-	-	/	æ	-
	ID	NUMBER	22	870	0.50	1	-	-	8 7 6

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	+	.=	*	/	÷	-
	ID	NUMBER	22	.5	2 .	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	:=:	-	()	/	-	-
	<u>ID</u>	NUMBER	22	(2)		1	950	3	131
	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

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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
<u>EMPSS</u>	<u>NAME</u>	VARCHAR2	50	€ 	÷	-	/	: - :	. e.
	<u>ID</u>	NUMBER	22	2.53	-	1	54	12T	0.03
	DEPT_ID	NUMBER	22	2.23	-	-	~	~	125
	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>	NAME	VARCHAR2	50	(-)	÷	-	/	(-)	i - 1
	<u>ID</u>	NUMBER	22	2172	-	1	54	1.70	2.55
	DEPT_ID	NUMBER	22	(4)	-	2	~	-	
	COMMISSION	NUMBER	-	2	2	-	/	343	141
								1	- 4