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Exp no: 04

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	-
	<u>ID</u>	NUMBER	22	8 7 8	V.T.:	1		-	ATO

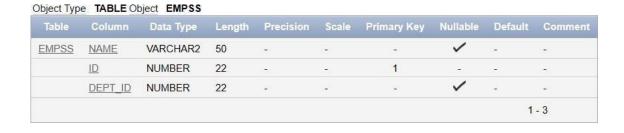
2. Create a PRIMAY KEY constraint to the DEPT table using the ID colum. The constraint should be named at creation. Name the constraint my_dept_id_pk.

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	-	150	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.

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	- -	-	-	/	3 .5 3	
	<u>ID</u>	NUMBER	22	10	-	1	54	15 2 0	0.53
	DEPT_ID	NUMBER	22	2.25	-	2	~	~	2.25
	COMMISSION	NUMBER	-	2	2	-	/	-	-
								1	- 4

ALTER TABLE EMP ADD CONSTRAINT chk_commission_positive CHECK (COMMISSION > 0);

Object Type	e TABLE Object	EMPSS							
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>EMPSS</u>	<u>NAME</u>	VARCHAR2	50	: - :	-	-	/	3 -5 3	(+ .
	<u>ID</u>	NUMBER	22	2.54	-	1	54	1.7	2.54
	DEPT_ID	NUMBER	22	2.25	-	2	~	(S)	2.25
	COMMISSION	NUMBER	-	2	2	-	/	-	-
								1	- 4