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Exp no: 04

DATE: 21.08.2024

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	.=:	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
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
<u>EMPSS</u>	NAME	VARCHAR2	50	:=:	(-)		/	-	:=:
	<u>ID</u>	NUMBER	22	\$ 5 .6	1.7	1	950	s	:5::
	DEPT_ID	NUMBER	22	-	141	-	~	2	-
								1	- 3

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>	NAME	VARCHAR2	50	-	×	-	/		-
	<u>ID</u>	NUMBER	22	2.52	7	1	54	1.77	2172
	DEPT_ID	NUMBER	22	125	-	÷	~	-	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	- - -	-	*	/	13 -5 12	- + <u>.</u>
	<u>ID</u>	NUMBER	22	2.52	5	1	Sa	5 2 9	15
	DEPT_ID	NUMBER	22	2.25	2	2	~		225
	COMMISSION	NUMBER	-	2	2	÷	/	-	
								1	- 4