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1  -- Switch to the DEMO Database
2  Use DEMO;
3
4  -- View Data in EMP Table
5  Select * from EMP;
6
7  -- View Data in EMP_SAL Table
8  Select * from EMP_SAL;
9
10 -- Applying Constraints on EMP Table
11
12 -- 1) Applying Primary Key Constraints on the EID Field
13 Alter Table EMP
14 Alter Column EID Char(5) Not Null;
15 Alter Table EMP
16 Add Constraint PK Primary Key(EID);
17
18 -- 2) Applying Not Null Constraints on the Name Field
19 Alter Table EMP
20 Alter Column NAME Varchar(30) Not Null;
21
22 -- 3) Applying Check Constraints on the ADDR Field to Ignore Specific Street/
    Area
23 Alter Table EMP
24 Add Constraint C1 Check (ADDR Not Like '%Uttam%Nagar%');
25
26 -- 4) Applying Check Constraints on the CITY Field for Specific Cities
27 Alter Table EMP
28 Add Constraint C2 Check (CITY IN ('Delhi', 'Gurgaon', 'Faridabad', 'Noida',
    'Mumbai', 'Pune', 'Bangalore'));
29
30 -- Verfyng/View EMP Table
31 Select * from EMP;
32
33 -- Resolving Conflict for C2 [EMP (4)]
34 Update EMP Set CITY = 'Delhi'
35 Where CITY = 'Jalgaon';
36
37 Update EMP Set CITY = 'Gurgaon'
38 Where CITY = 'Hyderabad';
39
40 Update EMP Set CITY = 'Mumbai'
41 Where CITY = 'Patna';
42
43 Update EMP Set CITY = 'Faridabad'
44 Where CITY = 'Chennai';
45
46 Update EMP Set CITY = 'Noida'
47 Where CITY = 'Jaipur';
48
49 Update EMP Set CITY = 'Bangalore'
50 Where CITY = 'Kolkata';
51
52 -- 5) Applying UNIQUE Constraints on the PHPNE_NO Field
53 Alter Table EMP
54 Add Constraint U1 Unique (PHONE_NO);
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55
56 -- 6) Applying Check Constraints on the EMAIL Field for Specific Domain
57 Alter Table EMP
58 Add Constraint C3 Check (EMAIL Like '%gmail.%' OR EMAIL Like '%yahoo.%');
59
60 -- 7) Applying Check Constraints on the DOB Field
61 Alter Table EMP
62 Add Constraint C4 Check (DOB <= '01-Jan-2000');
63
64
65 -- Applying Constraints on EMP_SAL Table
66
67 -- 1) Applying Foreign Key Constraints on the EID Field To Set Child and Parent Relationship
68 Alter Table EMP_SAL
69 Add Constraint FK1 Foreign Key (EID) References EMP(EID);
70
71 -- 2) Applying Check Constraints on the DEPT Field To Allow Specific Department Only
72 Alter Table EMP_SAL
73 Add Constraint C5 Check (DEPT IN ('HR', 'MIS', 'OPS', 'IT ADMIN', 'TEMP'));
74
75 -- 3) Applying Default Constraints on the DEPT Field To Filed with TEMP By Defalut
76 Alter Table EMP_SAL
77 Add Constraint D1 Default 'TEMP' For DEPT;
78
79 -- Verfyng/View EMP Table
80 Select * from EMP_SAL;
81
82 -- Resolving Conflict for C5 [EMP_SAL (2)]
83 Update EMP_SAL Set DEPT = 'IT ADMIN'
84 Where DEPT = 'IT';
85
86 Update EMP_SAL Set DEPT = 'OPS'
87 Where DEPT = 'Finance';
88
89 Update EMP_SAL Set DEPT = 'MIS'
90 Where DEPT = 'Sales';
91
92 Update EMP_SAL Set DEPT = 'TEMP'
93 Where DEPT = 'Marketing';
94
95 -- 4) Applying Check Constraints on the DESI Field To Allow Specific Designation Only
96 Alter Table EMP_SAL
97 Add Constraint C6 Check (DESI IN ('Associate', 'Manager', 'VP', 'Director'));
98
99 -- Verfyng/View EMP Table
100 Select * from EMP_SAL;
101
102 -- Resolving Conflict for C5 [EMP_SAL (4)]
103 Update EMP_SAL Set DESI = 'Associate'
104 Where DESI = 'Analyst';
105
106 Update EMP_SAL Set DESI = 'VP'
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107 Where DESI = 'Developer';
108
109 Update EMP_SAL Set DESI = 'Director'
110 Where DESI = 'Assistant';
111
112 Update EMP_SAL Set DESI = 'VP'
113 Where DESI = 'Executive';
114
115 Update EMP_SAL Set DESI = 'Manager'
116 Where DESI = 'Tester';
117
118 Update EMP_SAL Set DESI = 'Associate'
119 Where DESI = 'Co-ordinator';
120
121 -- 5) Applying Check Constraints on the BASIC_SAL Field
122 Alter Table EMP_SAL
123 Add Constraint C7 Check (BASIC_SAL >= 20000);
124
125 -- Verfyng/View EMP Table
126 Select * from EMP_SAL;
127
128 -- Resolving Conflict for C7 [EMP_SAL (5)]
129 Alter Table EMP_SAL
130 Add BASIC_SAL Int;
131
132 Update EMP_SAL Set BASIC_SAL = SALARY * 0.50;
133
134 -- Verfyng/Fetch Data
135 Select * from EMP;
136 Select * from EMP_sal;
```