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1          *** EXPERIMENT NO: 00 ***
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5          Date : 01-August-2020
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8  *****
9
10 AIM: To create a two-relation database and execute queries against it.
11
12 PROBLEM STATEMENT: Consider the conceptual and the logical schemata for the
13                     Citizen Database.
14                     PERSON(AadharNo, FName, LName, Gender, BirthDate, PinCode, Email)
15                     CONTACT(AadharNo, Phone )
16
17 *****
18
19 SQL> connect CS540/atharva
20 Connected.
21
22 *****
23
24 QUERY 01: Create the relations PERSON and CONTACT with specified constraints.
25
26 *****
27 SQL> CREATE TABLE PERSON (
28     2  AADHAR_NO NUMBER(12) NOT NULL,
29     3  FIRST_NAME VARCHAR2(15) NOT NULL,
30     4  LAST_NAME VARCHAR2(15) NOT NULL,
31     5  GENDER VARCHAR2(1) NOT NULL CHECK (GENDER IN('M','F','m','f')),
32     6  BIRTHDATE DATE DEFAULT SYSDATE-(365*16) NOT NULL,
33     7  PINCODE NUMBER(6) NOT NULL,
34     8  EMAIL VARCHAR2(35),
35     9  CONSTRAINT PERSON_PK PRIMARY KEY (AADHAR_NO)
36    10 );
37
38 Table created.
39
40
41 SQL> CREATE TABLE CONTACT(
42     2  AADHAR_NO NUMBER(12) NOT NULL,
43     3  PHONE NUMBER(10) NOT NULL,
44     4  CONSTRAINT CONTACT_PK PRIMARY KEY (AADHAR_NO,PHONE),
45     5  CONSTRAINT CONTACT_FK FOREIGN KEY (AADHAR_NO) REFERENCES PERSON(AADHAR_NO)
46     6 );
47
48 Table created.
49
50
51
52 *****
53
54 QUERY 02: List the primary key constraints for the Citizen Database. Your output must
55 includetable name, constraint name, constraint type and table owner.
56
57 *****
58
59
60 SQL> SELECT TABLE_NAME , CONSTRAINT_NAME , CONSTRAINT_TYPE , OWNER
61     2  FROM USER_CONSTRAINTS
62     3  WHERE CONSTRAINT_TYPE='P' AND TABLE_NAME IN ('PERSON','CONTACT');
63
64 TABLE_NAME      CONSTRAINT_NAME      C      OWNER
65 -----
66
67 CONTACT          CONTACT_PK          P      CS540
68
69 PERSON          PERSON_PK          P      CS540

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70
71
72 *****
73
74 QUERY 06: List the first name, last name, gender, pincode and email for all persons.
75
76 *****
77
78
79 SQL> SELECT FIRST_NAME, LAST_NAME, GENDER, PINCODE, EMAIL FROM PERSON;
80
81 FIRST_NAME      LAST_NAME      G      PINCODE      EMAIL
82 -----
83 ATHARVA         PALIWAL        M      440024      paliwalap@rk nec.edu
84 ISHIKA          PALIWAL        F      440024      paliwalip@rk nec.edu
85 NEETA           PALIWAL        F      440024      paliwalnp@rk nec.edu
86 GAURAV          PALIWAL        M      440024      paliwalgp@rk nec.edu
87 TEJAS           PALIWAL        M      440024      paliwaltp@rk nec.edu
88
89
90 *****
91
92 QUERY 07: List the person name and phone numbers for the person with name as that of
93 yours.
94
95 *****
96
97 SQL> SELECT FIRST_NAME, LAST_NAME, PHONE
98      2 FROM PERSON, CONTACT WHERE FIRST_NAME='ATHARVA' AND
99      PERSON.AADHAR_NO=CONTACT.AADHAR_NO;
100
101 FIRST_NAME      LAST_NAME      PHONE
102 -----
103 ATHARVA         PALIWAL        7218385709
104 ATHARVA         PALIWAL        8087992547
105
106 *****
107
108 QUERY 08: List the contact numbers for your family.
109
110 *****
111
112
113 SQL> SELECT FIRST_NAME, PHONE FROM PERSON, CONTACT
114      2 WHERE LAST_NAME='PALIWAL' AND PERSON.AADHAR_NO=CONTACT.AADHAR_NO;
115
116 FIRST_NAME      PHONE
117 -----
118 ISHIKA          9988776633
119 ATHARVA         7218385709
120 ATHARVA         8087992547
121 NEETA           7020396354
122 GAURAV          1234567879
123 TEJAS           9421365497
124
125 6 rows selected.
126
127
128 *****
129
130 QUERY 09: List the persons (i.e., last name, first name) whose contact is the
131 mentioned phonenumber.
132
133 *****
134
135 SQL> SELECT FIRST_NAME, LAST_NAME
136      2 FROM PERSON, CONTACT
137      3 WHERE PHONE=7218385709 AND PERSON.AADHAR_NO=CONTACT.AADHAR_NO;

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138
139 FIRST_NAME      LAST_NAME
140 -----
141 ATHARVA          PALIWAL
142
143
144
145
146
147 SQL> COMMIT;
148 Commit complete.
149
150
151 ***** E N D *****
```