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1  [ICIC BANK MANAGEMENT SYSTEM]
2
3  # CREATING DATABASE FOR ICIC BANK MANAGEMENT SYSTEM
4  create database ICICBMSYSTEM;
5  use ICICBMSYSTEM;
6
7  # CREATING TABLE NAME AS Account_Types
8  create table Account_Types
9  (
10 Account_no int,
11 Type_Account varchar(50),
12 Manager_id int,
13 Department_name varchar(50),
14 Opening_date date,
15 primary key (Account_no)
16 );
17
18 # CREATING TABLE NAME AS Department
19 create table Department
20 (
21 Department_id int,
22 Department_name varchar(20),
23 Manager_id int,
24 Employee_id int,
25 Account_no int,
26 primary key (Department_id),
27 foreign key (Account_no) references Account_types(Account_no)
28 on delete cascade
29 );
30
31 # CREATING TABLE NAME AS Bank_Details
32 create table Bank_Details
33 (
34 Branch_code int,
35 Address varchar(30),
36 Department_id int,
37 Branch_name varchar(30),
38 State varchar(20),
39 primary key (Branch_code),
40 foreign key (Department_id) references Department (Department_id)
41 on delete cascade
42 );
43
44 # CREATING TABLE NAME AS Employees
45 create table Employees
46 (
47 Employee_id int,
48 First_name varchar(30),
49 Department_id int,
50 Manager_id int,
51 job_id varchar(20),
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52 Email varchar(20),
53 Hire_Date date,
54 Phone_no varchar(20),
55 Salary int,
56 primary key (Employee_id),
57 foreign key (Department_id) references Department (department_id)
58 on delete cascade
59 );
60
61 # CREATING TABLE NAME AS Customer
62 create table Customer
63 (
64 Account_no int,
65 First_name varchar(20),
66 City varchar(20),
67 Branch_code int,
68 Employee_id int,
69 Phone_no varchar(20),
70 ATM_no int unique,
71 Exp_Date date,
72 pin_no int unique,
73 primary key (Account_no),
74 foreign key (Branch_code) references Bank_Details (Branch_code)
75 on delete cascade,
76 foreign key (Employee_id) references Employees (Employee_id)
77 on delete cascade
78 );
79
80 # CREATING TABLE NAME AS Job_Details
81 create table Job_Details
82 (
83 Job_id varchar(20),
84 Department_id int,
85 Branch_code int,
86 primary key (Job_id),
87 foreign key (Department_id) references Department (Department_id)
88 on delete cascade,
89 foreign key (Branch_code) references Bank_Details (Branch_code)
90 on delete cascade
91 );
92
93 # INSERTING VALUES IN TABLE OF Account_Types
94 insert into Account_Types (Account_no, Type_Account, Manager_id, Department_name, Opening_date)
95 values
96 (12345, 'saving', 20, 'Account', '2003-04-23'),
97 (67899, 'loan', 21, 'Loan', '2004-05-24'),
98 (10112, 'saving', 22, 'HR', '2006-01-04'),
99 (13145, 'loan', 23, 'Admin', '2003-04-23'),
100 (15167, 'Current', 24, 'sales', '2004-05-24'),
101 (18190, 'Business', 25, 'Security', '2006-01-04'),
102 (20210, 'loan', 26, 'account', '2003-04-23'),

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103 (22230,'saving',27,'loan','2004-05-24'),
104 (24250,'loan',28,'HR','2006-01-04'),
105 (26270,'current',29,'admin','2003-04-23'),
106 (28290,'business',30,'Sales','2004-05-24'),
107 (30310,'current',31,'Security','2006-01-04'),
108 (32330,'Saving',32,'account','2003-04-23'),
109 (34350,'loan',33,'loan','2004-05-24'),
110 (36370,'current',34,'HR','2006-01-04'),
111 (38390,'current',35,'admin','2003-04-23'),
112 (40410,'business',36,'Sales','2004-05-24'),
113 (42430,'current',37,'Security','2006-01-04'),
114 (44450,'Saving',38,'account','2003-04-23'),
115 (46470,'loan',39,'loan','2004-05-24'),
116 (48490,'saving',40,'HR','2006-01-04');
117
118 # SHOWING ALL COLUMNS PRESENT IN TABLE OF Account_Types
119 select * from Account_Types;
120
121 # INSERTING VALUES IN TABLE OF Department
122 insert into Department(Department_id,Department_name,Manager_id,Employee_id,Account_no)
123 values
124 (1,'Account',20,50,12345),
125 (8,'Loan',21,51,67899),
126 (11,'HR',22,52,10112),
127 (16,'Admin',23,53,13145),
128 (19,'Sales',24,54,15167),
129 (21,'Security',25,55,18190);
130
131 # SHOWING ALL COLUMNS PRESENT IN TABLE OF Department
132 select * from Department;
133
134 # INSERTING VALUES IN TABLE OF Bank_Details
135 insert into Bank_Details(Branch_code,Address,Department_id,Branch_name,State)
136 values
137 (100,'Nagpur',1,'ICIC_N','Maharashtra'),
138 (101,'pune',1,'ICIC_P','Maharashtra'),
139 (102,'Mumbai',1,'ICIC_M','Maharashtra'),
140 (103,'Delhi',1,'ICIC_d','DEL'),
141 (104,'Mumbai',1,'ICIC_M','Maharashtra'),
142 (105,'delhi',1,'ICIC_D','DEL'),
143 (106,'Nagpur',1,'ICIC_N','Maharashtra'),
144 (107,'Pune',8,'ICIC_P','Maharashtra'),
145 (108,'Mumbai',8,'ICIC_M','Maharashtra'),
146 (109,'Nagpur',8,'ICIC_N','Maharashtra'),
147 (110,'pune',11,'ICIC_P','Maharashtra'),
148 (111,'Mumbai',11,'ICIC_M','Maharashtra'),
149 (112,'Delhi',11,'ICIC_D','DEL'),
150 (113,'Nagpur',11,'ICIC_N','Maharashtra'),
151 (114,'Pune',11,'ICIC_P','Maharashtra'),
152 (115,'Mumbai',16,'ICIC_M','Maharashtra'),
153 (116,'Nagpur',16,'ICIC_N','Maharashtra'),

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154 (117,'Pune',16,'ICIC_P','Maharashtra'),
155 (118,'Mumbai',19,'ICIC_M','Maharashtra'),
156 (119,'Delhi',19,'ICIC_D','DEL'),
157 (120,'Pune',21,'ICIC_P','Maharashtra');
158
159 # SHOWING ALL COLUMNS PRESENT IN TABLE OF Bank_Details
160 select * from Bank_Details;
161
162 # INSERTING VALUES IN TABLE OF Employees
163 insert into Employees(Employee_id,First_name,Department_id,Manager_id,Job_id,Email,Hire_Date,Phone_no,Salary)
164 values
165 (50,'Samuel',1,20,'ST_CLERK','SMCCAIN','2007-11-23','650.505.1876',3800),
166 (51,'Allan',8,21,'ST_CLERK','SSEWALL','2004-01-30','650.505.2876',3600),
167 (52,'Irene',11,22,'ST_CLERK','SSTILES','2004-03-04','650.505.3876',2900),
168 (53,'Kevin',16,23,'ST_CLERK','STOBIAS','2004-08-01','650.505.4876',2500),
169 (54,'Julia',19,24,'ST_CLERK','SVOLLMAN','2005-03-10','650.501.1876',4000),
170 (55,'Donald',21,25,'ST_CLERK','TFOX','2005-12-15','650.501.2876',39000),
171 (56,'Christopher',1,26,'ST_CLERK','TGATES','2006-11-03','650.501.3876',3200),
172 (57,'TJ',8,27,'ST_MAN','TJOLSON','2005-11-11','650.501.4876',2800),
173 (58,'Lisa',11,28,'ST_MAN','TRAJS','2007-03-19','650.507.9811',3100),
174 (59,'Karen',16,29,'ST_MAN','VJONES','2004-01-24','650.507.9822',3000),
175 (60,'Valli',19,30,'ST_MAN','VPATABAL','2008-02-23','650.507.9833',2600),
176 (61,'Joshua',21,31,'ST_MAN','WGIETZ','2003-05-01','650.507.9844',6400),
177 (62,'Randall',1,32,'FI_ACCOUNT','WSMITH','2005-10-10','515.123.4444',6200),
178 (63,'Hazel',8,33,'FI_ACCOUNT','WTAYLOR','2007-11-16','515.123.5555',11500),
179 (64,'Luis',11,34,'FI_ACCOUNT','JNAYLOR','2005-07-16','603.123.6666',10000),
180 (65,'Trenna',16,35,'FI_ACCOUNT','JPATEL','2006-09-28','515.123.7777',9600),
181 (66,'Den',19,36,'FI_ACCOUNT','JRUSSEL','2007-01-14','515.123.8888',7400),
182 (67,'Michael',21,37,'SA_REP','JSEO','2008-03-08','515.123.8080',7300),
183 (68,'John',1,38,'SA_REP','JTAYLOR','2005-07-20','011.44.1346.329268',6100),
184 (69,'Nandita',8,39,'SA_REP','JWHALEN','2005-10-30','011.44.1346.529268',11000),
185 (70,'Ismael',11,40,'SA_REP','KCHUNG','2005-02-16','011.44.1346.52',8800);
186
187 # SHOWING ALL COLUMNS PRESENT IN TABLE OF Employees
188 select * from Employees;
189
190 # INSERTING VALUES IN TABLE OF Customer
191 insert into Customer(Account_No,First_Name,city,Branch_code,Employee_id,Phone_no,ATM_NO,Exp_date,Pin_No)
192 values
193 (12345,'Samuel','Ngapur',100,50,'650.505.1876',423705689,'2006-04-23',5689),
194 (67899,'Allan','pune',101,51,'650.505.2876',423568971,'2007-05-24',8971),
195 (10112,'Irene','Mumbai',102,52,'650.505.3876',423432253,'2008-01-04',12253),
196 (13145,'Kevin','delhi',103,53,'650.505.4876',423295535,'2006-01-24',15535),
197 (15167,'Julia','Mumbai',104,54,'650.501.1876',423158817,'2006-02-23',18817),
198 (18190,'Donald','delhi',105,55,'650.501.2876',423022099,'2007-06-21',22099),
199 (20210,'Christopher','Ngapur',106,56,'650.501.3876',422885381,'2008-02-03',25381),
200 (22230,'TJ','pune',107,57,'650.501.4876',422748663,'2004-01-27',28663),
201 (24250,'Lisa','Mumbai',108,58,'650.507.9811',422611945,'2005-02-20',31945),
202 (26270,'Karen','Ngapur',109,59,'650.507.9822',422475227,'2006-06-24',35227),
203 (28290,'Valli','pune',110,60,'650.507.9833',422338509,'2007-02-07',38509),
204 (30310,'Joshua','Mumbai',111,61,'650.507.9844',422201791,'2008-01-13',41791),

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205 (32330,'Randall','delhi',112,62,'515.123.4444',422065073,'2003-09-17',45073),
206 (36370,'Luis','pune',114,64,'603.123.6666',421791637,'2005-08-17',51637),
207 (38390,'Trenna','Mumbai',115,65,'515.123.7777',421654919,'2002-06-07',54919),
208 (40410,'Den','Ngapur',116,66,'515.123.8888',421518201,'2002-06-07',58201),
209 (42430,'Michael','pune',117,67,'515.123.8080',421381483,'2002-06-07',61483),
210 (44450,'John','Mumbai',118,68,'011.44.1346.329268',421244765,'2002-06-07',64765),
211 (46470,'Nandita','delhi',119,69,'011.44.1346.529268',421108047,'2008-04-21',68047),
212 (48490,'Ismael','Pune',120,70,'011.44.1346.52',420971329,'2005-03-11',71329);
213
214 # SHOWING ALL COLUMNS PRESENT IN TABLE OF Customer
215 select * from Customer;
216
217 # INSERTING VALUES IN TABLE OF Job_Details
218 insert into Job_Details(Job_id,Department_id,Branch_code)
219 values
220 ('ST_CLERK',1,101),
221 ('ST_MAN',8,108),
222 ('FI_ACCOUNT',11,113),
223 ('SA_REP',19,118);
224
225 # SHOWING ALL COLUMNS PRESENT IN TABLE OF Job_Details
226 select * from Job_Details;
227
228 [QUERIES WITH SOLUTION]
229
230 # query 1: Find an employee's whose id is 52 and branch name is icicp (ICIC_P).
231 SELECT * FROM employees, bank_details
232 WHERE employee_id = 52 AND branch_name = 'ICIC_P';
233
234 # query 2: Count the number of employees working in the loan department and show its opening dates and address.
235 SELECT count(*) AS 'number of Employees', opening_date, address, department_name
236 FROM account_types, bank_details
237 WHERE department_name = 'loan'
238 GROUP BY opening_date, address;
239
240 # query 3: Find details department name, address, branch code, dept_id, city of the account no 18190.
241 SELECT account_types.department_name, bank_details.address, bank_details.branch_code, bank_details.department_id, customer.city
242 FROM bank_details,account_types,customer
243 JOIN department ON department.department_id = bank_details.department_id
244 WHERE account_no = 18190;
245
246 # query 4: Find department id, department name, job id whose only work in Loan, HR, admin.
247 SELECT department.department_id, department.department_name, job_details.job_id
248 FROM department, job_details
249 WHERE department_name IN ('Loan', 'HR', 'Admin');
250
251 # query 5: Find the type_account, state account number whose atm no 422748663.
252 SELECT account_types.type_account, bank_details.state, customer.account_no, atm_no
253 FROM bank_details, customer, account_types
254 WHERE atm_no LIKE '422748663';
255

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256 # query 6: Create a view with that show address, branch name, department name, first name. phone no.
257 CREATE VIEW organisationview AS
258 SELECT bank_details.address, bank_details.branch_name, department.department_name, employees.first_name, employees.phone_no
259 FROM bank_details,employees,department;
260
261 /*VIEWING ALL DETAILS PRESENT IN TABLE OF organisationview*/
262 SELECT * FROM organisationview;
263
264 # query 7: Create view city, department name whose opening date is less than 24 May 04 (2004-06-24).
265 CREATE VIEW organisationlview AS
266 SELECT customer.city, department.department_name, account_types.opening_date
267 FROM customer,department,account_types
268 WHERE opening_date < '2004-06-24';
269
270 /*VIEWING ALL DETAILS PRESENT IN TABLE OF organisationlview*/
271 SELECT * FROM organisationlview;
272
273 # query 8: Create view only job id for clerk, manager, an accountant with all detail and name it employee job_deatils.
274 CREATE VIEW organisation3view AS
275 SELECT employee_id,first_name,manager_id,department_id,job_id,email,hire_date,phone_no,salary
276 FROM employees
277 WHERE job_id IN ('ST_CLERK', 'ST_MAN', 'FI_ACCOUNT');
278
279 /*VIEWING ALL DETAILS PRESENT IN TABLE OF organisation3view*/
280 SELECT * FROM organisation3view;
281
282 # query 9: In the job details change the atm pin 423295535 with 42321992.
283 UPDATE customer
284 SET atm_no = '42321992'
285 WHERE atm_no = '423295535';
286
287 # query 10: In the job, details change all sales,account into admin and account type into saving.
288 UPDATE account_types
289 SET department_name = 'admin', type_account = 'saving'
290 WHERE department_name = 'sales' AND department_name = 'account';
291
292 [THE END]

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