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1  -- DROPPING/CREATING DATABASE
2  DROP DATABASE IF EXISTS WestConCableCompany;
3  CREATE DATABASE WestConCableCompany;
4
5  USE WestConCableCompany;
6  -- CREATING TABLES
7  CREATE TABLE Customer (
8      CustomerID INT (11) NOT NULL AUTO_INCREMENT,
9      FirstName VARCHAR (32) NOT NULL,
10     LastName VARCHAR (32) NOT NULL,
11     Address VARCHAR (255) NOT NULL,
12     StartDate DATE NOT NULL,
13     PRIMARY KEY (CustomerID)
14 );
15
16 CREATE TABLE CustomerChannelPackage (
17     CustomerID INT (11) NOT NULL,
18     PackageID INT (11) NOT NULL,
19     PRIMARY KEY (CustomerID, PackageID)
20 );
21
22 CREATE TABLE ChannelPackage (
23     PackageID INT (11) NOT NULL AUTO_INCREMENT,
24     PackageName VARCHAR (32) NOT NULL,
25     PackagePrice FLOAT NOT NULL,
26     PRIMARY KEY (PackageID)
27 );
28
29 CREATE TABLE ChannelPackageChannel (
30     PackageID INT (11) NOT NULL,
31     ChannelID INT (11) NOT NULL,
32     PRIMARY KEY (PackageID, ChannelID)
33 );
34
35 CREATE TABLE Channel (
36     ChannelID INT (11) NOT NULL AUTO_INCREMENT,
37     ChannelName VARCHAR (32) NOT NULL,
38     ChannelNumber INT (11) NOT NULL,
39     PRIMARY KEY (ChannelID)
40 );
41
42 CREATE TABLE PayPerViewEvent (
43     EventID INT (11) NOT NULL AUTO_INCREMENT,
44     ChannelID INT (11) NOT NULL,
45     EventName VARCHAR (32) NOT NULL,
46     EventDate DATETIME NULL,
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47     EventPrice FLOAT NOT NULL,
48     PRIMARY KEY (EventID)
49 );
50
51 CREATE TABLE PayPerViewEventCustomer (
52     EventID INT (11) NOT NULL,
53     CustomerID INT (11) NOT NULL,
54     PaymentAmount FLOAT NULL,
55     PaidOrNot TINYINT NOT NULL,
56     PRIMARY KEY (EventID, CustomerID)
57 );
58
59 -- ALTERING THE TABLES
60 ALTER TABLE CustomerChannelPackage
61     ADD CONSTRAINT
62     FK__CustomerChannelPackage__Customer__CustomerID
63     FOREIGN KEY (CustomerID)
64     REFERENCES Customer (CustomerID);
65
66 ALTER TABLE CustomerChannelPackage
67     ADD CONSTRAINT
68     FK__CustomerChannelPackage__ChannelPackage__PackageID
69     FOREIGN KEY (PackageID)
70     REFERENCES ChannelPackage (PackageID);
71
72 ALTER TABLE ChannelPackageChannel
73     ADD CONSTRAINT
74     FK__ChannelPackageChannel__ChannelPackage__PackageID
75     FOREIGN KEY (PackageID)
76     REFERENCES ChannelPackage (PackageID);
77
78 ALTER TABLE ChannelPackageChannel
79     ADD CONSTRAINT
80     FK__ChannelPackageChannel__Channel__ChannelID
81     FOREIGN KEY (ChannelID)
82     REFERENCES Channel (ChannelID);
83
84 ALTER TABLE PayPerViewEventCustomer
85     ADD CONSTRAINT
86     FK__PayPerViewEventCustomer__Customer__CustomerID
87     FOREIGN KEY (CustomerID)
88     REFERENCES Customer (CustomerID);
89
90 ALTER TABLE PayPerViewEventCustomer
91     ADD CONSTRAINT FK__PayPerViewEvent__EventID
92     FOREIGN KEY (EventID)
93     REFERENCES Event (EventID);

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88 REFERENCES PayPerViewEvent (EventID);
89
90 ALTER TABLE PayPerViewEvent
91 ADD CONSTRAINT FK__PayPerViewEvent__Channel__ChannelID
92 FOREIGN KEY (ChannelID)
93 REFERENCES Channel (ChannelID);
94
95 -- INSERTING DATA INTO DATABASE
96 -- ADDING 3 CUSTOMERS
97 INSERT INTO Customer
98 (FirstName, LastName, Address, StartDate)
99 VALUES
100 ('John', 'Buck', '111 Candyland Road, Halifax, NS'
    , '2016-09-30');
101
102 INSERT INTO Customer
103 (FirstName, LastName, Address, StartDate)
104 VALUES
105 ('Jane', 'Doe', '122 Candy Cane Road, Halifax, NS'
    , '2019-07-02');
106
107 INSERT INTO Customer
108 (FirstName, LastName, Address, StartDate)
109 VALUES
110 ('Jack', 'Sprat', '133 Candy Corn Lane, Dartmouth,
    NS', '2018-04-15');
111
112 -- ADDING THREE CHANNELS
113 INSERT INTO Channel
114 (ChannelName, ChannelNumber)
115 VALUES
116 ('ABC', '100');
117
118 INSERT INTO Channel
119 (ChannelName, ChannelNumber)
120 VALUES
121 ('Spike', '106');
122
123 INSERT INTO Channel
124 (ChannelName, ChannelNumber)
125 VALUES
126 ('TSN', '110');
127
128 -- ADD THREE CABLE PACKAGES
129 INSERT INTO ChannelPackage
130 (PackageName, PackagePrice)
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131 VALUES
132     ('Basic', '50.00');
133
134 INSERT INTO ChannelPackage
135     (PackageName, PackagePrice)
136 VALUES
137     ('Action', '25.00');
138
139 INSERT INTO ChannelPackage
140     (PackageName, PackagePrice)
141 VALUES
142     ('Sports', '20.00');
143
144 -- ADD CHANNELS TO PACKAGES
145 INSERT INTO ChannelPackageChannel
146     (ChannelID, PackageID)
147 VALUES
148     (1, 1);
149
150 INSERT INTO ChannelPackageChannel
151     (ChannelID, PackageID)
152 VALUES
153     (2, 2);
154
155 INSERT INTO ChannelPackageChannel
156     (ChannelID, PackageID)
157 VALUES
158     (3, 3);
159
160 -- ADDING BASIC PACKAGE TO ALL CUSTOMER SUBSCRIPTIONS
161 INSERT INTO CustomerChannelPackage
162     (CustomerID, PackageID)
163 VALUES
164     (1, 1);
165
166 INSERT INTO CustomerChannelPackage
167     (CustomerID, PackageID)
168 VALUES
169     (2, 1);
170
171 INSERT INTO CustomerChannelPackage
172     (CustomerID, PackageID)
173 VALUES
174     (3, 1);
175
176 -- ADDING ACTION PACKAGE TO JANE DOE'S SUBSCRIPTION
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177 INSERT INTO CustomerChannelPackage
178     (CustomerID, PackageID)
179 VALUES
180     (2, 2);
181
182 -- ADDING THE PRIZE FIGHT TO PAY-PER-VIEW-EVENT
183 INSERT INTO PayPerViewEvent
184     (ChannelID, EventName, EventDate, EventPrice)
185 VALUES
186     (3, 'The Prize Fight', '2019-11-30T20:00:00.000', '9.
    95');
187
188 -- ADDING JOHN BUCK TO LIST OF PEOPLE TO WATCH BIG FIGHT
189 INSERT INTO PayPerViewEventCustomer
190     (CustomerID, EventID, PaidOrNot, PaymentAmount)
191 VALUES
192     (1, 1, 0, NULL);
193
194 -- UPDATING JOHN BUCK'S PAYMENT (9.95) FOR BIG FIGHT
    RECORD
195 UPDATE PayPerViewEventCustomer
196 SET PaidOrNot = 1, PaymentAmount = '9.95'
197 WHERE EventID = 1 AND CustomerID = 1;
198
199 -- DELETING ACTION PACKAGE SUBSCRIPTION FOR JANE DOE
200 DELETE FROM CustomerChannelPackage
201     WHERE PackageID = 2 AND CustomerID = 2;
202
203 -- DISPLAY CUSTOMER INFO ALPHABETICALLY BY LAST NAME
204 SELECT LastName FROM Customer
205 ORDER BY LastName ASC;
206
207 -- DISPLAYING ALL INFO FOR SPIKE CHANNEL
208 SELECT * FROM Channel
209 WHERE ChannelName = 'Spike';
210
211 -- DISPLAYING TITLE AND DATE OF FUTURE PAY-PER-VIEW EVENTS
212 SELECT EventName, EventDate FROM PayPerViewEvent
213 WHERE EventDate > NOW ();
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