

```
1 DROP DATABASE WestCon_CableCompany;
2
3 CREATE DATABASE WestCon_CableCompany;
4 USE WestCon_CableCompany;
5
6 -- CREATE TABLES
7 CREATE TABLE Customer
8 (
9     CustomerID INT(11) NOT NULL AUTO_INCREMENT,
10    CustomerFirstName VARCHAR(32) NOT NULL,
11    CustomerLastName VARCHAR(32) NOT NULL,
12    CustomerAddress VARCHAR(255) NOT NULL,
13    SubscriptionStartDate DATETIME NOT NULL,
14    PRIMARY KEY (CustomerID)
15 );
16
17 CREATE TABLE ChannelPackage
18 (
19     ChannelPackageID INT(11) NOT NULL AUTO_INCREMENT,
20     ChannelPackageName VARCHAR(32) NOT NULL,
21     ChannelPackagePrice FLOAT NOT NULL,
22     PRIMARY KEY (ChannelPackageID)
23 );
24
25 CREATE TABLE Channel
26 (
27     ChannelID INT(11) NOT NULL AUTO_INCREMENT,
28     ChannelNum INT(11) NOT NULL,
29     ChannelName VARCHAR(32) NOT NULL,
30     PRIMARY KEY (ChannelID)
31 );
32
33 CREATE TABLE PayPerViewEvent
34 (
35     PPVEventID INT(11) NOT NULL AUTO_INCREMENT,
36     PPVEventDate DATETIME NOT NULL,
37     PPVEventName VARCHAR(32) NOT NULL,
38     PPVEventPrice FLOAT NOT NULL,
39     ChannelID INT(11) NOT NULL,
40     PRIMARY KEY (PPVEventID)
41 );
42
43 CREATE TABLE ChannelPackageChannel
```

```

44 (
45     ChannelID INT(11) NOT NULL,
46     ChannelPackageID INT(11) NOT NULL,
47     PRIMARY KEY (ChannelID, ChannelPackageID)
48 );
49
50 CREATE TABLE CustomerChannelPackage
51 (
52     CustomerID INT(11) NOT NULL,
53     ChannelPackageID INT(11) NOT NULL,
54     PRIMARY KEY (CustomerID, ChannelPackageID)
55 );
56
57 CREATE TABLE CustomerPayPerViewEvent
58 (
59     PPVEventID INT(11) NOT NULL,
60     CustomerID INT(11) NOT NULL,
61     PaidOrUnpaid TINYINT NOT NULL,
62     PPVAmountDue FLOAT NULL,
63     PRIMARY KEY (PPVEventID, CustomerID)
64 );
65
66 -- ALTERING TABLES
67 ALTER TABLE CustomerChannelPackage
68     ADD CONSTRAINT
69     FK__CustomerChannelPackage__Customer__CustomerID
70     FOREIGN KEY (CustomerID)
71     REFERENCES Customer (CustomerID);
72
73 ALTER TABLE CustomerChannelPackage
74     ADD CONSTRAINT
75     FK__CustomerChannelPackage__ChannelPackage__ChannelPackageID
76     FOREIGN KEY (ChannelPackageID)
77     REFERENCES ChannelPackage (ChannelPackageID);
78
79 ALTER TABLE ChannelPackageChannel
80     ADD CONSTRAINT
81     FK__ChannelPackageChannel__Channel__ChannelID
82     FOREIGN KEY (ChannelID)
83     REFERENCES Channel (ChannelID);
84
85 ALTER TABLE ChannelPackageChannel
86     ADD CONSTRAINT

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83 FK__ChannelPackageChannel__ChannelPackage__ChannelPackageID
84     FOREIGN KEY (ChannelPackageID)
85     REFERENCES ChannelPackage (ChannelPackageID);
86
87 ALTER TABLE CustomerPayPerViewEvent
88     ADD CONSTRAINT
89     FK__CustomerPayPerViewEvent__Customer__CustomerID
90     FOREIGN KEY (CustomerID)
91     REFERENCES Customer (CustomerID);
92
93 ALTER TABLE CustomerPayPerViewEvent
94     ADD CONSTRAINT FK__PayPerViewEvent__PPVEventID
95     FOREIGN KEY (PPVEventID)
96     REFERENCES PayPerViewEvent (PPVEventID);
97
98 ALTER TABLE PayPerViewEvent
99     ADD CONSTRAINT FK__PayPerViewEvent__Channel__ChannelID
100    FOREIGN KEY (ChannelID)
101    REFERENCES Channel (ChannelID);
102
103 -- INSERTING INTO THE DATABASE
104 -- add three customers
105 INSERT INTO Customer
106     (CustomerFirstName, CustomerLastName, CustomerAddress,
107      SubscriptionStartDate)
108     VALUES
109     ('John', 'Buck', '123 Somewhere Road', '2017-07-11T12:02
110      :07.000');
111
112 INSERT INTO Customer
113     (CustomerFirstName, CustomerLastName, CustomerAddress,
114      SubscriptionStartDate)
115     VALUES
116     ('Jane', 'Doe', '777 Heavenly Drive', '2014-11-06T09:07:
117      17.000');
118
119 INSERT INTO Customer
120     (CustomerFirstName, CustomerLastName, CustomerAddress,
121      SubscriptionStartDate)
122     VALUES
123     ('Jack', 'Sprat', '0711 Everywhere Lane', '2018-03-18T14
124      :22:07.002');
```

```
119 -- add three channels
120 INSERT INTO Channel
121     (ChannelName, ChannelNum)
122 VALUES
123     ('ABC', '100');
124
125 INSERT INTO Channel
126     (ChannelName, ChannelNum)
127 VALUES
128     ('Spike', '106');
129
130 INSERT INTO Channel
131     (ChannelName, ChannelNum)
132 VALUES
133     ('TSN', '110');
134
135 -- add channel packages
136 INSERT INTO ChannelPackage
137     (ChannelPackageName, ChannelPackagePrice)
138 VALUES
139     ('Basic', '100');
140
141 INSERT INTO ChannelPackage
142     (ChannelPackageName, ChannelPackagePrice)
143 VALUES
144     ('Action', '150');
145
146 INSERT INTO ChannelPackage
147     (ChannelPackageName, ChannelPackagePrice)
148 VALUES
149     ('Sports', '150');
150
151 -- adding channels to the packages
152 INSERT INTO ChannelPackageChannel
153     (ChannelID, ChannelPackageID)
154 VALUES
155     (1, 1);
156
157 INSERT INTO ChannelPackageChannel
158     (ChannelID, ChannelPackageID)
159 VALUES
160     (2, 2);
161
```

```
162 INSERT INTO ChannelPackageChannel
163     (ChannelID, ChannelPackageID)
164 VALUES
165     (3, 3);
166
167 -- adding BASIC Channel Package to all customer
    subscriptions
168 INSERT INTO CustomerChannelPackage
169     (CustomerID, ChannelPackageID)
170 VALUES
171     (1, 1);
172
173 INSERT INTO CustomerChannelPackage
174     (CustomerID, ChannelPackageID)
175 VALUES
176     (2, 1);
177
178 INSERT INTO CustomerChannelPackage
179     (CustomerID, ChannelPackageID)
180 VALUES
181     (3, 1);
182
183 -- adding Action package to Jane Doe's subscription
184 INSERT INTO CustomerChannelPackage
185     (CustomerID, ChannelPackageID)
186 VALUES
187     (2, 2);
188
189 -- adding The Prize Fight to PayPerView Event
190 INSERT INTO PayPerViewEvent
191     (PPVEventDate, PPVEventName, PPVEventPrice, ChannelID)
192 VALUES
193     ('2019-11-30T20:00:00.000', 'The Prize Fight', '9.95', 3
194     );
195 -- adding John Buck to the List of people who want to watch
    The Prize Fight PayPerView Event
196 INSERT INTO CustomerPayPerViewEvent
197     (CustomerID, PPVEventID, PaidOrUnpaid, PPVAmountDue)
198 VALUES
199     (1, 1, 0, NULL);
200
201 -- updating John Buck's big fight record to complete his
```

```
201 payment of 9.95
202 UPDATE CustomerPayPerViewEvent
203 SET PaidOrUnpaid = 1, PPVAmountDue = '9.95'
204 WHERE CustomerID = 1 AND PPVEventID = 1;
205
206 -- deleting Jane Doe's subscription to the Action package
207 DELETE FROM CustomerChannelPackage
208     WHERE CustomerID = 2 AND ChannelPackageID = 2;
209
210 -- displaying a list of all customer information
    alphabetically by last name
211 SELECT CustomerLastName FROM Customer
212 ORDER BY CustomerLastName ASC;
213
214 -- displaying all information for the Spike channel
215 SELECT * FROM Channel
216 WHERE ChannelName = 'Spike';
217
218 -- displaying the title and date of all future Pay-Per-View
    events
219 SELECT PPVEventName, PPVEventDate FROM PayPerViewEvent
220 WHERE PPVEventDate > NOW();
```