```sql
1  --        ##### FLUSH #####
2
3  USE [DWTaxiService-sdd65]
4  GO
5
6
7  --Drop all foreign key restraints
8  ALTER TABLE dbo.FactTrips DROP CONSTRAINT [FK_FactTrips_DimDates]
9
10 ALTER TABLE dbo.FactTrips DROP CONSTRAINT [FK_FactTrips_DimLocation]
11
12 ALTER TABLE dbo.FactTrips DROP CONSTRAINT [FK_FactTrips_DimDriver]
13
14 ALTER TABLE dbo.DimLocation DROP CONSTRAINT [FK_DimLocation_DimCity]
15
16 GO
17
18 --TRUNCATE each table
19 TRUNCATE TABLE dbo.FactTrips
20
21 TRUNCATE TABLE dbo.DimLocation
22
23 TRUNCATE TABLE dbo.DimCity
24
25 TRUNCATE TABLE dbo.DimDriver
26
27 TRUNCATE TABLE dbo.DimDates
28
29 GO
30
31 --Add back FK restraints
32 ALTER TABLE [dbo].[FactTrips] WITH CHECK ADD CONSTRAINT [FK_FactTrips_DimDates]
     FOREIGN KEY ([DateKey])
33 REFERENCES [dbo].[DimDates] ([DateKey])
34 GO
35
36 ALTER TABLE [dbo].[FactTrips]  WITH CHECK ADD CONSTRAINT
     [FK_FactTrips_DimLocation] FOREIGN KEY ([LocationKey])
37 REFERENCES [dbo].[DimLocation] ([LocationKey])
38 GO
39
40 ALTER TABLE [dbo].[FactTrips]  WITH CHECK ADD CONSTRAINT [FK_FactTrips_DimDriver]
     FOREIGN KEY ([DriverKey])
41 REFERENCES [dbo].[DimDriver] ([DriverKey])
42 GO
43
44 ALTER TABLE [dbo].[DimLocation] WITH CHECK ADD CONSTRAINT
     [FK_DimLocation_DimCity] FOREIGN KEY([CityKey])
45 REFERENCES [dbo].[DimCity] ([CityKey])
46 GO
47
48
```

```sql
49  --        ##### FILL #####
50
51  --Populate Tables with no FK. ~ DimCity | DimDriver | DimDate
52
53  INSERT INTO dbo.DimCity
54  (
55  CityId,
56  CityName
57  )
58  (
59  SELECT
60  [CityId] = CAST ([City_Code] AS nchar(10) ),
61  [CityName] = CAST([CountryName] AS nvarchar(50))
62  FROM [TaxiServiceDB-sdd65].[dbo].[City]
63  )
64  GO
65
66  INSERT INTO dbo.DimDriver
67  (
68  DriverId,
69  DriverName
70  )
71  (
72  SELECT
73  [DriverId] = CAST([Driver_Id] as nchar(8)),
74  [DriverName] = CAST(isNull([FirstName], 'Unknown') + ' ' + (isNull([LastName],
      'Unknown')) as nVarchar(50))
75  FROM [TaxiServiceDB-sdd65].[dbo].[Driver]
76  )
77  GO
78
79  --Populate
      DimDates-----------------------------------------------------------------
      ----------------------------------------------------
80
81  Declare @StartDate datetime = '01/01/2010'
82  Declare @EndDate datetime = '12/31/2011'
83  Declare @DateInProcess datetime
84  Set @DateInProcess = @StartDate
85  While @DateInProcess <= @EndDate
86  Begin
87  Insert Into DimDates
88  ( [Date],
89  [DateName],
90  [Month],
91  [MonthName],
92  [Year],
93  [YearName]
94  )
95  Values
96  (
97   @DateInProcess,
```

```sql
 98    DateName ( weekday, @DateInProcess ),
 99    Month( @DateInProcess ),
100    DateName( month, @DateInProcess ),
101    Year(@DateInProcess),
102    Cast( Year(@DateInProcess ) as nVarchar(50) )
103    )
104
105    Set @DateInProcess = DateAdd(d, 1, @DateInProcess)
106    End
107    Set Identity_Insert [DWTaxiService-sdd65].[dbo].[DimDates] On
108    Insert Into [dbo].[DimDates]
109     (
110    [DateKey],
111    [Date],
112    [DateName],
113    [Month],
114    [MonthName],
115    [Year],
116    [YearName]
117     )
118     (
119     Select
120    [DateKey] = -1,
121    [Date] = '01/01/2009',
122    [DateName] = Cast('Unknown Day' as nVarchar(50)),
123    [Month] = -1,
124    [MonthName] = Cast('Unknown Month' as nVarchar(50)),
125    [Year] = -1,
126    [YearName] = Cast('Unknown Year' as nVarchar(50))
127     )
128     Insert Into [dbo].[DimDates]
129     (
130    [DateKey],
131    [Date],
132    [DateName],
133    [Month],
134    [MonthName],
135    [Year],
136    [YearName]
137     )
138     (
139     Select
140    [DateKey] = -2,
141    [Date] = '01/01/2009',
142    [DateName] = Cast('Corrupt Day' as nVarchar(50)),
143    [Month] = -2,
144    [MonthName] = Cast('Corrupt Month' as nVarchar(50)),
145    [Year] = -2,
146    [YearName] = Cast('Corrupt Year' as nVarchar(50))
147     )
148    Go
149     Set Identity_Insert [DWTaxiService-sdd65].[dbo].[DimDates] off -- don't forget
```

```sql
        this!
150 GO
151 -------------------------------------------------------------------------------- ⮎
        -----------------------------------------------------
152 --Populate Tables with Foreign Keys ~ DimLocation | FactTrips
153
154 --Populate DimLocation --> 1 Foreign Key
155 INSERT INTO [dbo].[DimLocation]
156 (
157 CityKey,
158 StreetId,
159 Street
160 )
161 (
162 SELECT
163 [CityKey] = [DimCity].[CityKey],
164 [StreetId] = [Street_Code],
165 [Street] = CAST (isNull([StreetName], 'Unknown')as nvarchar(50))
166
167 FROM ([TaxiServiceDB-sdd65].[dbo].[Street] INNER JOIN DimCity
168 ON [TaxiServiceDB-sdd65].[dbo].[Street].[City_Code] = DimCity.CityId)
169 )
170 GO
171
172 --Populate FactTrips --> 3 Foreign Keys
173 INSERT INTO [dbo].[FactTrips]
174 (
175 TripNumber,
176 DateKey,
177 LocationKey,
178 DriverKey,
179 TripMileage,
180 TripCharge
181 )
182 (
183 SELECT
184 [TripNumber] = CAST ([number] as nvarchar(50) ),
185 [DateKey] = [DimDates].[DateKey],
186 [LocationKey] = [DimLocation].[LocationKey],
187 [DriverKey] = [DimDriver].[DriverKey],
188 [TripMileage] = CAST (isNull([milage], 'Unknown') as decimal(18, 4)),
189 [TripCharge] = CAST (isNull([charge], 'Unknown') as decimal(18, 4))
190
191 FROM (([TaxiServiceDB-sdd65].[dbo].[Trip]
192 INNER JOIN DimDates ON [TaxiServiceDB-sdd65].[dbo].[Trip].[Date] = DimDates. ⮎
        [Date])
193 INNER JOIN DimLocation ON [TaxiServiceDB-sdd65].[dbo].[Trip].[Street_Code] = ⮎
        DimLocation.[StreetId])
194 INNER JOIN DimDriver ON [TaxiServiceDB-sdd65].[dbo].[Trip].[Driver_Id] = ⮎
        DimDriver.[DriverId]
195 )
196 GO
```