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1  -- Turner Barnett
2  -- CIS310-02
3  -- A10
4  -- Due: 12/6/2017 before midnight
5
6  --1
7
8  CREATE TABLE PRODUCTDIM (
9      PRODUCTID    VARCHAR(15) NOT NULL,
10     PROD_SKU      VARCHAR(15) NOT NULL,
11     PROD_DESCRIPTION  VARCHAR(255),
12     PROD_TYPE     VARCHAR(255),
13     BRAND_ID      NUMERIC(4,0),
14     BRAND_NAME    VARCHAR(100) NOT NULL,
15     BRAND_TYPE    VARCHAR(20)
16 );
17
18 CREATE TABLE TIMEDIM (
19     TIMEID    NUMERIC(4,0) NOT NULL,
20     INV_DATE  DATE,
21     YEAR      DATE,
22     MONTH     DATE,
23     QUARTER   DATE
24 );
25
26 CREATE TABLE FACT (
27     CUSTOMERID  NUMERIC NOT NULL,
28     TIMEID      NUMERIC(4,0) NOT NULL,
29     PRODUCTID   VARCHAR(15) NOT NULL,
30     EMPLOYEEID  NUMERIC NOT NULL,
31     LINE_QTY    NUMERIC,
32     LINE_PRICE  NUMERIC(8,2)
33 );
34
35 CREATE TABLE CUSTOMERDIM (
36     CUSTOMERID  NUMERIC NOT NULL,
37     CUST_CODE   NUMERIC(38,0),
38     CUST_FNAME  VARCHAR(20),
39     CUST_LNAME  VARCHAR(20),
40     CUST_STREET VARCHAR(70),
41     CUST_CITY   VARCHAR(50),
42     CUST_STATE  CHAR(2),
43     CUST_ZIP    CHAR(5)
44 );
45
46 CREATE TABLE EMPLOYEEEDIM (
47     EMPLOYEEID  NUMERIC NOT NULL,
48     EMP_NUM     NUMERIC(6,0),
49     EMP_FNAME   VARCHAR(20) NOT NULL,
50     EMP_LNAME   VARCHAR(25) NOT NULL,
51     DEPT_NUM    NUMERIC,
52     DEPT_NAME   VARCHAR(50) NOT NULL
53 );
54
55 ALTER TABLE PRODUCTDIM
56 ADD CONSTRAINT PK_PRODUCTDIM PRIMARY KEY (PRODUCTID)
57
58 ALTER TABLE TIMEDIM
59 ADD CONSTRAINT PK_TIMEDIM PRIMARY KEY (TIMEID)
60
61 ALTER TABLE CUSTOMERDIM
62 ADD CONSTRAINT PK_CUSTOMERID PRIMARY KEY (CUSTOMERID)
63
64 ALTER TABLE EMPLOYEEEDIM
65 ADD CONSTRAINT PK_EMPLOYEEID PRIMARY KEY (EMPLOYEEID)
66
67 ALTER TABLE FACT
68 ADD CONSTRAINT PK_FACT PRIMARY KEY (CUSTOMERID,EMPLOYEEID,TIMEID,PRODUCTID),
69     CONSTRAINT FK_FACT_CUSTOMERDIM FOREIGN KEY (CUSTOMERID) REFERENCES CUSTOMERDIM,

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70     CONSTRAINT FK_FACT_TIMEDIM FOREIGN KEY (TIMEID) REFERENCES TIMEDIM,
71     CONSTRAINT FK_FACT_EMPLOYEEIDIM FOREIGN KEY (EMPLOYEEID) REFERENCES EMPLOYEEIDIM,
72     CONSTRAINT FK_FACT_PRODUCTDIM FOREIGN KEY (PRODUCTID) REFERENCES PRODUCTDIM
73
74
75
76
77 DROP TABLE PRODUCTDIM
78 DROP TABLE CUSTOMERDIM
79 DROP TABLE EMPLOYEEIDIM
80 DROP TABLE FACT
81 DROP TABLE TIMEDIM
82
83 TRUNCATE TABLE PRODUCTDIM
84 TRUNCATE TABLE CUSTOMERDIM
85 TRUNCATE TABLE EMPLOYEEIDIM
86 TRUNCATE TABLE FACT
87 TRUNCATE TABLE TIMEDIM
88
89 -- 2
90
91 CREATE PROCEDURE POPULATE
92
93     AS BEGIN
94     INSERT INTO CUSTOMERDIM VALUES ('1','126','Toys Galore','','28 Laketon
St.','Fullton','CA','90085')
95     INSERT INTO CUSTOMERDIM VALUES ('2','260','Brookings Direct','','452 Columbus
Dr.','Grove','CA','90092')
96     INSERT INTO CUSTOMERDIM VALUES ('3','334','The Everything Shop','','342 Magee
St.','Congaree','CA','90097')
97     INSERT INTO CUSTOMERDIM VALUES ('4','386','Johnson's Department Store','','123
Main St.','Northfield','Ca','90098')
98     INSERT INTO CUSTOMERDIM VALUES ('5','440','Grove Historical Museum Store','','3456
Central Ave.','Fullton','CA','90085')
99     INSERT INTO CUSTOMERDIM VALUES ('6','502','Cards and More','','167 Hale
St.','Mesa','CA','90104')
100    INSERT INTO CUSTOMERDIM VALUES ('7','586','Almondton General Store','','3345 Devon
Ave.','Almondton','CA','90125')
101    INSERT INTO CUSTOMERDIM VALUES ('8','665','Cricket Gift Shop','','372 Oxford
St.','Grove','CA','90092')
102    INSERT INTO CUSTOMERDIM VALUES ('9','713','Cress Store','','12 Rising Sun
Ave.','Congaree','CA','90097')
103    INSERT INTO CUSTOMERDIM VALUES ('10','796','Unique Gifts','','786 Passmore
St.','Northfield','CA','90098')
104    INSERT INTO CUSTOMERDIM VALUES ('11','824','Kline's','','945 Gilham
St.','Mesa','CA','90104')
105    INSERT INTO CUSTOMERDIM VALUES ('12','893','All Season Gifts','','382 Wildwood
Ave.','Fullton','CA','90085')
106
107    INSERT INTO FACT VALUES ('','','','5','$86.99')
108    INSERT INTO FACT VALUES ('','','','25','$10.95')
109    INSERT INTO FACT VALUES ('','','','10','$13.99')
110    INSERT INTO FACT VALUES ('','','','5','$104.95')
111    INSERT INTO FACT VALUES ('','','','1','$124.95')
112    INSERT INTO FACT VALUES ('','','','4','$115.99')
113    INSERT INTO FACT VALUES ('','','','3','$116.95')
114    INSERT INTO FACT VALUES ('','','','2','$121.95')
115    INSERT INTO FACT VALUES ('','','','5','$29.95')
116    INSERT INTO FACT VALUES ('','','','12','$36.95')
117    INSERT INTO FACT VALUES ('','','','10','$13.10')
118    INSERT INTO FACT VALUES ('','','','8','$45.79')
119
120    INSERT INTO TIMEDIM VALUES ('1','10/12/2015','','','')
121    INSERT INTO TIMEDIM VALUES ('2','10/13/2015','','','')
122    INSERT INTO TIMEDIM VALUES ('3','10/15/2015','','','')
123    INSERT INTO TIMEDIM VALUES ('4','10/16/2015','','','')
124
125    INSERT INTO PRODUCTDIM VALUES ('1','AH74','Patience','GME','','','')
126    INSERT INTO PRODUCTDIM VALUES ('2','BR23','Patience','GME','','','')

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127      INSERT INTO PRODUCTDIM VALUES ('3','CD33','Patience','TOY','','','')
128      INSERT INTO PRODUCTDIM VALUES ('4','DL51','Patience','TOY','','','')
129      INSERT INTO PRODUCTDIM VALUES ('5','DR67','Patience','PZL','','','')
130      INSERT INTO PRODUCTDIM VALUES ('6','DW23','Patience','GME','','','')
131      INSERT INTO PRODUCTDIM VALUES ('7','FD11','Patience','TOY','','','')
132      INSERT INTO PRODUCTDIM VALUES ('8','FH24','Patience','PZL','','','')
133      INSERT INTO PRODUCTDIM VALUES ('9','KA12','Patience','GME','','','')
134      INSERT INTO PRODUCTDIM VALUES ('10','KD34','Patience','PZL','','','')
135      INSERT INTO PRODUCTDIM VALUES ('11','KL78','Patience','GME','','','')
136      INSERT INTO PRODUCTDIM VALUES ('12','MT03','Patience','PZL','','','')
137      INSERT INTO PRODUCTDIM VALUES ('13','NL89','Patience','TOY','','','')
138      INSERT INTO PRODUCTDIM VALUES ('14','TR40','Patience','GME','','','')
139      INSERT INTO PRODUCTDIM VALUES ('15','TW35','Patience','TOY','','','')
140
141
142
143
144
145      END
146      GO
147
148  -- 3
149
150  -- 4
151  SELECT TOP 5 PROD_DESCRPT, SUM([LINE_QTY]*[LINE_PRICE]) AS SALES
152  FROM PRODUCTDIM INNER JOIN FACT ON PRODUCTDIM.PRODUCTID = FACT.PRODUCTID
153  GROUP BY PROD_DESCRPT
154  ORDER BY SALES
155
156  -- 5
157  SELECT TOP 1 EMP_FNAME, EMP_LNAME, SUM([LINE_QTY]*[LINE_PRICE]) AS SALES
158  FROM EMPLOYEEDIM INNER JOIN FACT ON EMPLOYEEDIM.EMPLOYEEID = FACT.EMPLOYEEID
159  GROUP BY EMP_FNAME,EMP_LNAME
160  ORDER BY SALES
161
162  -- 6
163  SELECT CUST_CITY AS CITY, BRAND_NAME, SUM([LINE_QTY]*[LINE_PRICE]) AS SALES
164  FROM CUSTOMERDIM LEFT OUTER JOIN FACT ON CUSTOMERDIM.CUSTOMERID = FACT.CUSTOMERID
165  LEFT OUTER JOIN PRODUCTDIM ON PRODUCTDIM.PRODUCTID = FACT.PRODUCTID
166  GROUP BY CUST_CITY, BRAND_NAME
167
168  -- 7
169  SELECT CUST_LNAME, CUST_FNAME, PRODUCT_DESCRPT AS PRODUCT
170  FROM (
171      SELECT
172
173

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