

```
use Commercial_Project
```

```
-- Add the following column: In the Calendar table, add a column named 'Weekend' Equals "Y" for Saturdays or Sundays (otherwise "N")
```

```
select * from Calendar
```

```
ALTER TABLE Calendar
ADD Weekend CHAR(1)
```

```
UPDATE Calendar
SET Weekend = (SELECT CASE WHEN Name_Of_day IN ('Saturday', 'Sunday') THEN 'Y'
                        ELSE 'N'
                        END AS Weekend)
```

```
-- In the Calendar table, add a column named "End of Month" Returns the last date of the current month for each row
```

```
ALTER TABLE Calendar
ADD End_Of_Month Date
```

```
UPDATE Calendar
SET End_Of_Month = EOMONTH(Date)
```

	Date	Start_Of_Week	Name_Of_day	Start_Of_Month	Name_Of_Month	Quarter_Of_Year	Year	Weekend	End_Of_Month
1	1997-01-01	1996-12-29	Wednesday	1997-01-01	January	1	1997	N	1997-01-31
2	1997-01-02	1996-12-29	Thursday	1997-01-01	January	1	1997	N	1997-01-31
3	1997-01-03	1996-12-29	Friday	1997-01-01	January	1	1997	N	1997-01-31
4	1997-01-04	1996-12-29	Saturday	1997-01-01	January	1	1997	Y	1997-01-31
5	1997-01-05	1997-01-05	Sunday	1997-01-01	January	1	1997	Y	1997-01-31
6	1997-01-06	1997-01-05	Monday	1997-01-01	January	1	1997	N	1997-01-31
7	1997-01-07	1997-01-05	Tuesday	1997-01-01	January	1	1997	N	1997-01-31
8	1997-01-08	1997-01-05	Wednesday	1997-01-01	January	1	1997	N	1997-01-31
9	1997-01-09	1997-01-05	Thursday	1997-01-01	January	1	1997	N	1997-01-31
10	1997-01-10	1997-01-05	Friday	1997-01-01	January	1	1997	N	1997-01-31
11	1997-01-11	1997-01-05	Saturday	1997-01-01	January	1	1997	Y	1997-01-31

```
-- In the Customers table, add a column named 'Current Age' Calculates current customer ages using the 'birthdate' column and the GETDATE() function
```

```
select * from Customers
```

```
ALTER TABLE Customers
ADD Current_Age INTEGER
```

```
UPDATE Customers
SET Current_Age = DATEDIFF(Year, birthdate, GETDATE())
```

birth_year	has_children	Current_Age
1961	Y	63
1915	Y	109
1910	Y	114
1969	Y	55
1951	Y	73
1942	Y	82
1949	Y	75
1922	Y	102
1979	Y	45
1949	Y	75

```
-- In the Customers table, add a column named 'Priority' Equals 'High' for customers who own homes
-- and have Golden membership cards (otherwise 'Standard')
```

```
select * from Customers
```

```
ALTER TABLE Customers
ADD Priority VARCHAR(50)
```

```
UPDATE Customers
SET Priority = (SELECT
CASE WHEN member_card = 'Golden' AND homeowner = 'Y' THEN 'High'
ELSE 'Standard'
END AS Priority)
```

member_card	occupation	homeowner	full_name	birth_year	has_children	Current_Age	Priority
Bronze	Skilled Manual	Y	Sheri Nowmer	1961	Y	63	Standard
Bronze	Professional	N	Demick Whelply	1915	Y	109	Standard
Bronze	Professional	Y	Jeanne Derry	1910	Y	114	Standard
Normal	Skilled Manual	N	Michael Spence	1969	Y	55	Standard
Silver	Manual	N	Maya Gutierrez	1951	Y	73	Standard
Bronze	Professional	Y	Robert Damstra	1942	Y	82	Standard
Bronze	Manual	Y	Rebecca Kanagaki	1949	Y	75	Standard
Bronze	Professional	Y	Kim Brunner	1922	Y	102	Standard
Normal	Skilled Manual	Y	Brenda Blumberg	1979	Y	45	Standard
Golden	Management	N	Darren Stanz	1949	Y	75	Standard

-- In the Customers table, add a column named 'Short_Country' Returns the first three characters of the customer country, and converts to all uppercase

```
select * from Customers
```

```
ALTER TABLE Customers
ADD short_country VARCHAR(50)
```

```
UPDATE Customers
SET short_country = UPPER(SUBSTRING(customer_country, 1, 3))
```

-- OR I could have used the UPPER LEFT functions too

```
UPDATE Customers
SET short_country = UPPER(LEFT(customer_country, 3))
```

-- In the Customers table, add a column named 'House Number' Extracts all characters/numbers before the first space in the 'customer_address' column

```
select * from Customers
```

```
ALTER TABLE Customers
ADD house_number VARCHAR(50)
```

-- As in this T-Transact version there is not the more versatile built-in function STRING_SPLIT I am forced to use SUBSTRING once again

```
UPDATE Customers
SET house_number = SUBSTRING(CUSTOMER_ADDRESS, 1, 4)
```

house_number
6871
4948
4989
3320
6270
7511
717
2212
5670
76 W

-- In the Products table, add a column named "Price_Tier" Equals "High" if the retail price is >\$3, ---
-- "Mid" if the retail price is >\$1, and "Low" otherwise

```
select * from Products
```

```
ALTER TABLE Products
ADD price_tier VARCHAR(50)
```

```
UPDATE Products
SET price_tier = (SELECT
CASE WHEN product_retail_price > 3 THEN 'High'
      WHEN product_retail_price > 1 THEN 'Mid'
      ELSE 'Low'
END AS price_tier)
```

	product_id	product_brand	product_name	product_sku	product_retail_price	product_cost	product_weight	recyclable	discount_price	price_tier
1	1	Washington	Washington Berry Juice	9.07486e+010	2.85	0.94	8.39	0	2.57	Mid
2	2	Washington	Washington Mango Drink	9.65165e+010	0.74	0.26	7.42	0	0.67	Low
3	3	Washington	Washington Strawberry Drink	5.84278e+010	0.83	0.40	13.10	1	0.75	Low
4	4	Washington	Washington Cream Soda	6.44122e+010	3.64	1.64	10.60	1	3.28	High
5	5	Washington	Washington Diet Soda	8.55612e+010	2.19	0.77	6.66	1	1.97	Mid
6	6	Washington	Washington Cola	2.98046e+010	1.15	0.37	15.80	0	1.04	Mid
7	7	Washington	Washington Diet Cola	2.01914e+010	2.61	0.91	18.00	1	2.35	Mid
8	8	Washington	Washington Orange Juice	8.97705e+010	2.59	0.80	8.97	1	2.33	Mid
9	9	Washington	Washington Cranberry Juice	4.93951e+010	2.42	0.77	7.14	0	2.18	Mid
10	10	Washington	Washington Apple Juice	2.21141e+010	1.42	0.50	8.13	1	1.28	Mid
11	11	Washington	Washington Apple Drink	1.70743e+010	3.51	1.65	20.00	0	3.16	High

-- In the Stores table, add a column named "Years_Since_Remodel" Calculates the number of years between the current date GETDATE() and the last remodel date

```
select * from Stores
```

```
ALTER TABLE Stores
ADD years_since_remodel INT
```

```
UPDATE Stores
SET years_since_remodel = DATEDIFF(YEAR, last_remodel_date, GETDATE())
```

	address	store_city	store_state	store_country	store_phone	first_opened_date	last_remodel_date	total_sqft	grocery_sqft	full_address	area_code	years_since_remodel
15	id Drive	Seattle	WA	USA	893-555-1024	1969-07-24	1973-10-19	21215	13305	Seattle, WA, USA	893	51
16	3 Ct	Spokane	WA	USA	643-555-3645	1974-08-23	1977-07-13	30268	22063	Spokane, WA, USA	643	47
17	oad	Tacoma	WA	USA	855-555-5581	1970-05-30	1976-06-23	33858	22123	Tacoma, WA, USA	855	48
18	oad	Hidalgo	Zacatecas	Mexico	528-555-8317	1969-06-28	1975-08-30	38382	30351	Hidalgo, Zacatecas, Mexico	528	49
19	se Drive	Vancouver	BC	Canada	862-555-7395	1977-03-27	1990-10-25	23112	16418	Vancouver, BC, Canada	862	34
20	e Ln	Victoria	BC	Canada	897-555-1931	1980-02-06	1987-04-09	34452	27463	Victoria, BC, Canada	897	37
21	Circle	San Andres	DF	Mexico	493-555-4781	1986-02-07	1990-04-16	32717	25453	San Andres, DF, Mexico	493	34
22	Loop	Walla Walla	WA	USA	881-555-5117	1951-01-24	1969-10-17	35918	24837	Walla Walla, WA, USA	881	55
23	ourt	Yakima	WA	USA	170-555-8424	1977-07-16	1987-07-24	29182	19283	Yakima, WA, USA	170	37
24	m St.	San Diego	CA	USA	111-555-0303	1979-05-22	1986-04-20	27372	18293	San Diego, CA, USA	111	38