```
CREATE TABLE urunler (
  urun id INT PRIMARY KEY,
  marka VARCHAR(50),
  model VARCHAR(50),
  kategori VARCHAR(50)
);
INSERT INTO urunler VALUES
(1, 'Toyota', 'Corolla', 'Sedan'),
(2, 'Ford', 'Focus', 'Hatchback'),
(3, 'BMW', '320i', 'Sedan');
CREATE TABLE fiyat_gecmisi (
  fiyat id INT IDENTITY(1,1) PRIMARY KEY,
  urun_id INT,
  fiyat NUMERIC(10,2),
  baslangic tarihi DATE,
  bitis_tarihi DATE
);
INSERT INTO fiyat_gecmisi (urun_id, fiyat, baslangic_tarihi, bitis_tarihi) VALUES
(1, 200000, '2025-01-01', '2025-05-31'),
(1, 210000, '2025-06-01', '2025-12-31'),
(2, 150000, '2025-01-01', '2025-09-10'),
(3, 300000, '2025-01-01', '2025-06-30'),
(3, 320000, '2025-07-01', '2025-12-31');
CREATE TABLE stok_girisleri (
  stok_id INT IDENTITY(1,1) PRIMARY KEY,
  urun_id INT,
  stok_tarihi DATE,
  miktar INT
);
INSERT INTO stok_girisleri (urun_id, stok_tarihi, miktar) VALUES
(1, '2025-01-05', 10),
(1, '2025-02-10', 15),
(1, '2025-03-20', 5),
(2, '2025-01-15', 20),
(2, '2025-04-01', 10),
(3, '2025-06-10', 8),
(3, '2025-07-01', 12);
```

```
CREATE TABLE satislar (
  satis_id INT IDENTITY(1,1) PRIMARY KEY,
  urun id INT,
  satis_tarihi DATE,
  miktar INT
);
INSERT INTO satislar (urun id, satis tarihi, miktar) VALUES
(1, '2025-01-10', 5),
(1, '2025-02-15', 10),
(1, '2025-03-25', 3),
(2, '2025-01-20', 8),
(2, '2025-04-10', 7),
(3, '2025-06-15', 4),
(3, '2025-07-20', 6);
WITH stok_aylik AS (
  SELECT
    urun id,
    DATEADD(MONTH, DATEDIFF(MONTH, 0, stok_tarihi), 0) AS ay,
    SUM(miktar) AS aylik_stok
  FROM stok girisleri
  GROUP BY urun_id, DATEADD(MONTH, DATEDIFF(MONTH, 0, stok_tarihi), 0)
),
satis_aylik AS (
  SELECT
    urun id,
    DATEADD(MONTH, DATEDIFF(MONTH, 0, satis_tarihi), 0) AS ay,
    SUM(miktar) AS aylik satis
  FROM satislar
  GROUP BY urun_id, DATEADD(MONTH, DATEDIFF(MONTH, 0, satis_tarihi), 0)
),
birlesik AS (
  SELECT
    CASE WHEN s.urun_id IS NOT NULL THEN s.urun_id ELSE sa.urun_id END AS
urun id,
    CASE WHEN s.ay IS NOT NULL THEN s.ay ELSE sa.ay END AS ay,
    s.aylik stok,
    sa.aylik_satis
  FROM stok_aylik s
  FULL OUTER JOIN satis aylik sa
    ON s.urun id = sa.urun id AND s.ay = sa.ay
),
stok devir AS (
  SELECT
    b.urun_id,
    b.ay,
```

```
b.aylik_stok,
    b.aylik_satis,
    CASE
       WHEN b.aylik_satis > 0 THEN ROUND((b.aylik_stok * 30.0) / b.aylik_satis, 2)
       ELSE NULL
    END AS stok_devir_gunu
  FROM birlesik b
),
fiyat_aylik AS (
  -- Her ürün için ay bazında fiyat aralıklarını ayın ilk günü ile eşleştiriyoruz
  SELECT
    urun id,
    DATEADD(MONTH, DATEDIFF(MONTH, 0, baslangic_tarihi), 0) AS ay,
    fiyat,
    baslangic tarihi
  FROM fiyat_gecmisi
),
fiyatli AS (
  SELECT
    sd.*,
    fa.fiyat,
    ROW_NUMBER() OVER (PARTITION BY sd.urun_id, sd.ay ORDER BY
fa.baslangic_tarihi DESC) AS rn
  FROM stok_devir sd
  LEFT JOIN fiyat_aylik fa
    ON sd.urun_id = fa.urun_id
    AND sd.ay = fa.ay
),
final AS (
  SELECT
    f.urun_id,
    f.ay,
    f.aylik_stok,
    f.aylik_satis,
    f.stok_devir_gunu,
    f.fiyat,
    u.marka,
    u.model,
    u.kategori
  FROM fiyatli f
  JOIN urunler u ON f.urun_id = u.urun_id
  WHERE f.rn = 1
)
SELECT*
FROM final
ORDER BY urun_id, ay DESC;
```

Urun_id	ay	aylik _stok		stok_dev ir_gunu	fiyat	mar ka	mode 1	kategori
1	2025-03 -01 00:00:0 0.000	5	3	50.00000	NULL	Toy ota	Coro lla	Sedan
1	2025-02 -01 00:00:0 0.000	15	10	45.00000 0000000	NULL	Toy ota	Coro lla	Sedan
1	2025-01 -01 00:00:0 0.000	10	5	60.00000 0000000	20000	Toy ota	Coro lla	Sedan
2	2025-04 -01 00:00:0 0.000	10	7	42.86000 0000000	NULL	For d	Focu s	Hatchback
2	2025-01 -01 00:00:0 0.000	20	8	75.00000 0000000	15000 0.00	For d	Focu s	Hatchback
3	2025-07 -01 00:00:0 0.000	12	6	60.00000 0000000	32000 0.00	BMW	320i	Sedan
3	2025-06 -01 00:00:0 0.000	8	4	60.00000 0000000	NULL	BMW	320i	Sedan