Решение задания SQL

1. Необходимо добавить поле(ключ) NDM в таблицу DMS, чтобы связать таблицу Заголовок и таблицу Строки
2. Нормализация
   2.1 В таблице DMS поле SORT лишнее, по полю KTOV можно получить SORT запросом из таблицы TOV
   2.2 В таблице DMS отсутствует ключевое поле
3. Запросы написаны с учетом добавления поля связи
   3.1
   ```
   select g.NTOV as 'Товар',   Sum(s.KOL) as 'Количество', Sum(s.KOL * s.CENA) as 'Сумма'
   from TOV as g
         join DMS as s on s.KTOV = g.KTOV
         join DMZ as d on d.NDM = s.NDM
   where d.PR = 2 and d.DDM = '2014-05-01'
   group by d.DDM, d.NDM, g.NTOV
   order by 'Сумма' desc;
   ```

   3.2
   ```
   UPDATE [dbo].[DMS]
     SET
       [SORT] = g.SORT
         FROM [dbo].[TOV] as g
         join [dbo].[DMS] as s on g.KTOV = s.KTOV
   ```

   3.3
   ```
   select d.NTOV, sum(d.KOL) as Ostatok, sum(d.suma) as Summa_ostatok
   from
             (SELECT g.NTOV, case when t.PR = 1 then s.KOL else s.KOL*-1 end as KOL,
                 case when t.PR = 1 then (s.KOL * s.CENA) else (s.KOL * s.CENA)*-1 end as suma
             FROM [bd].[dbo].[DMS] as s
             join TOV as g on s.KTOV = g.KTOV
             join DMZ as t on s.NDM=t.NDM) d
   group by d.NTOV
   Order by d.NTOV;
   ```

   3.4
   ```
   insert into dmz(DDM, NDM, PR)
   select Getdate(), (select isnull(max(NDM), 0) + 1 from dmz) , case when (select COUNT(*) from dmz d
   where d.PR= 2) >= (select COUNT(*) from dmz d where d.PR= 1) then 1 else 2 end;
   ```

   3.5
   ```
   DECLARE @max int, @min int
   set @max = (Select max(NDM) from dms)
   set @min = (Select min(NDM) from dms)

   insert into DMS (KTOV, KOL, CENA, NDM,SORT)
   Select KTOV, KOL, CENA, @max, SORT
   from dms d
   where
         d.NDM = @min
         and d.KTOV not in (
                             Select KTOV
                             from dms d
                             where d.NDM = @max)
   ```