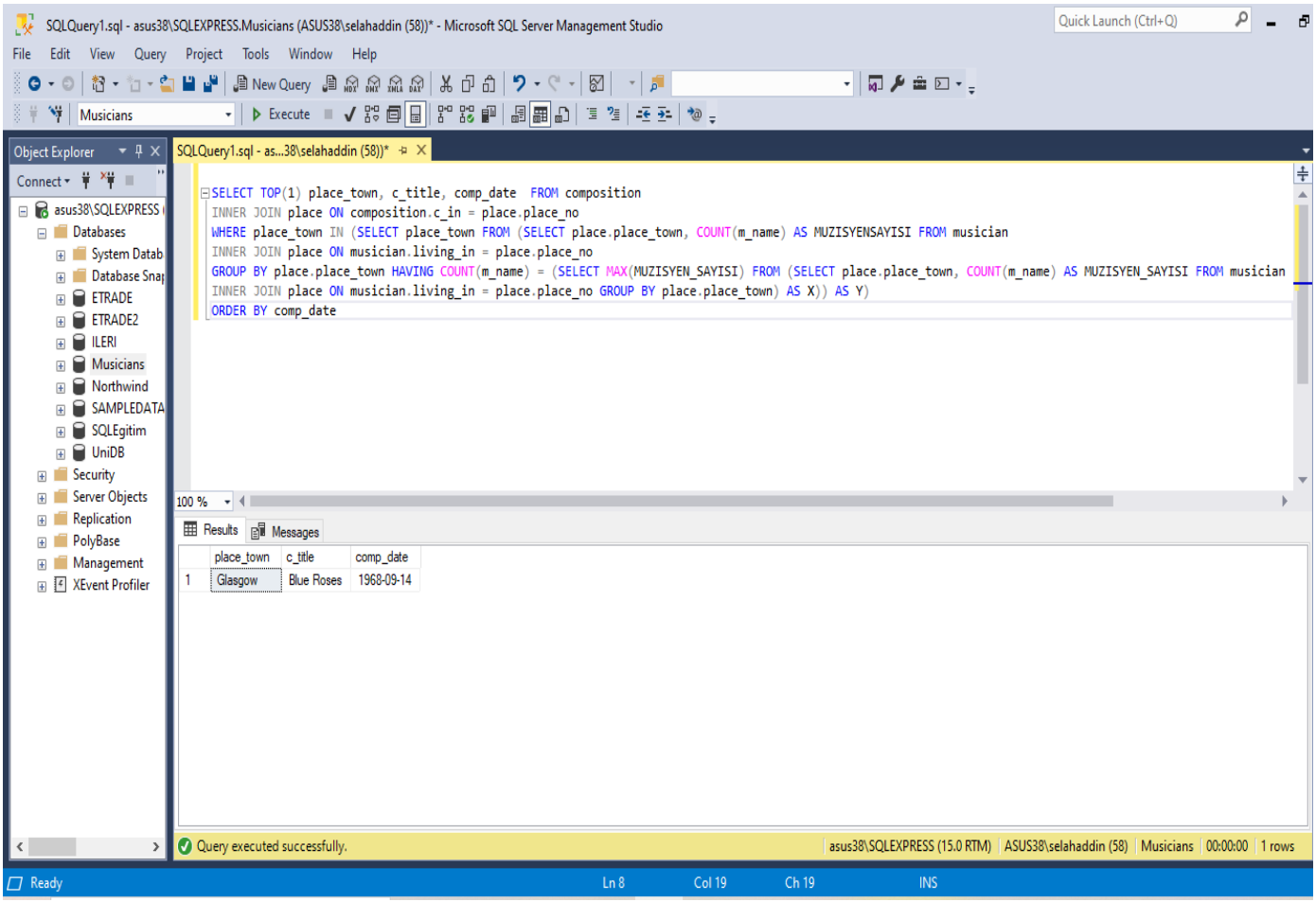
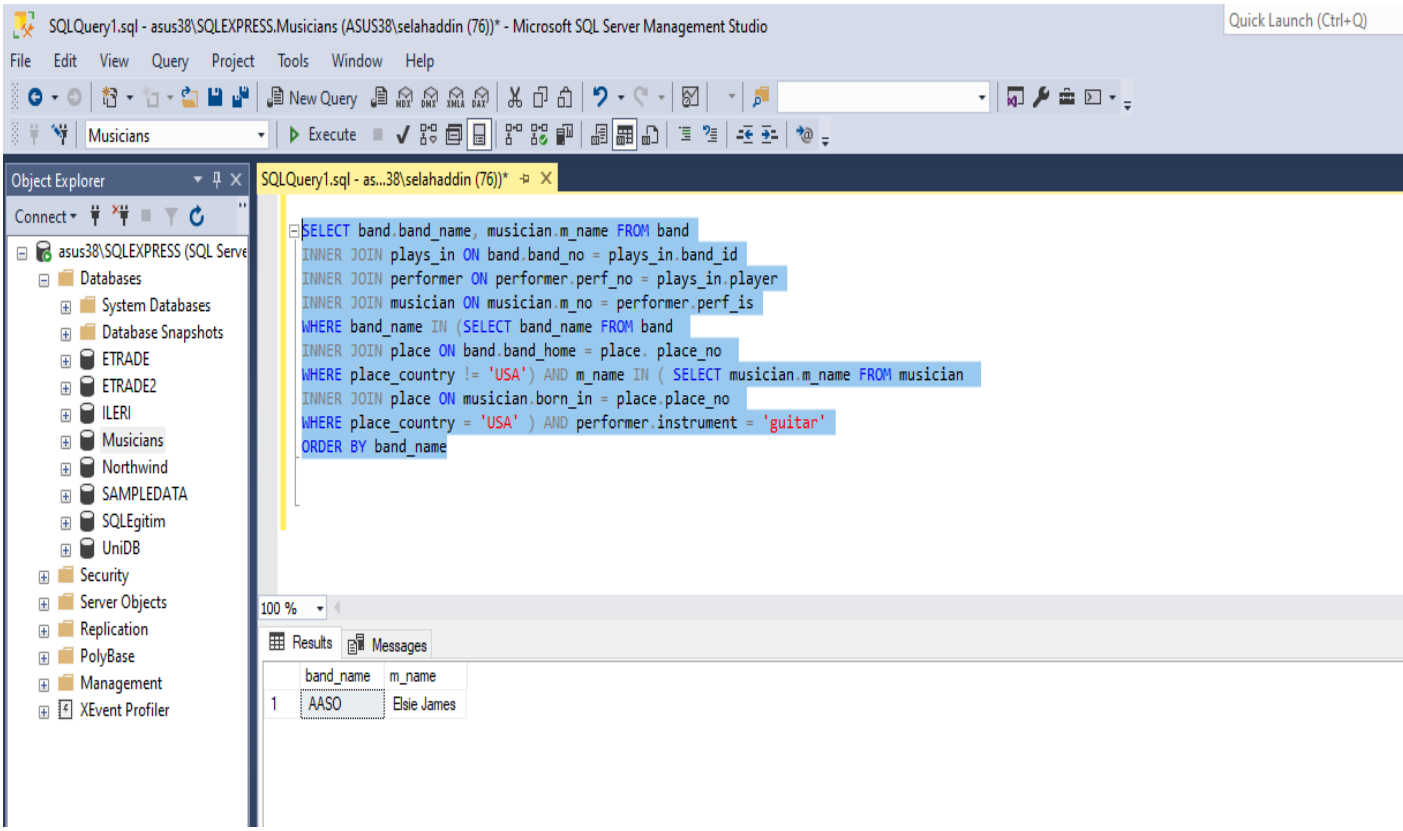
https://sqlzoo.net/wiki/Musicians

- En çok müzisyenin yaşadığı şehirde bestelenmiş eserler içinde en eski olanı bul (Find the oldest composition which was composed in the town that has the most musicians as a resident). İpucu: Engine MySQL seçili olduğunda SQL Server'daki TOP komutuna benzer LIMIT komutunu kullanabilirsiniz.



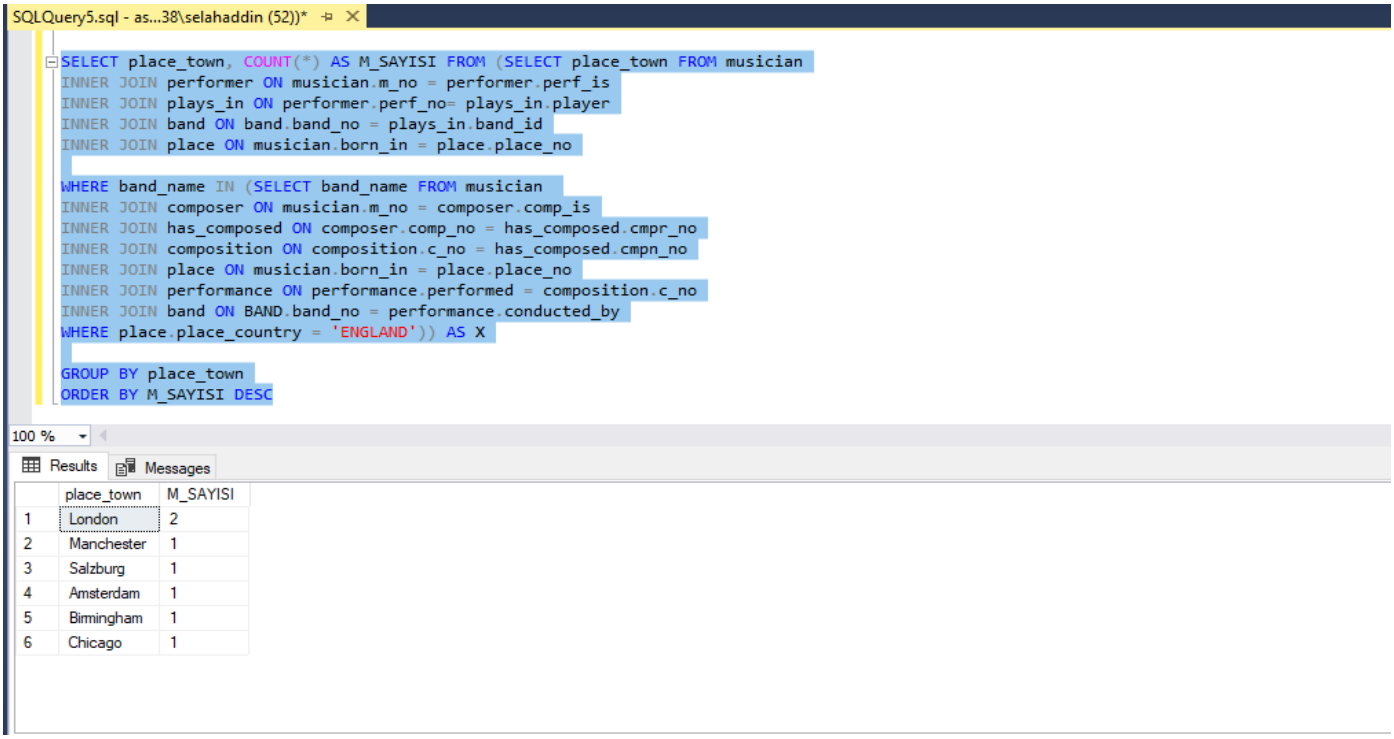

```
SELECT TOP(1) place_town, c_title, comp_date FROM composition
INNER JOIN place ON composition.c_in = place.place_no
WHERE place_town IN (SELECT place_town FROM (SELECT place.place_town, COUNT(m_name) AS
MUZISYENSAYISI FROM musician
INNER JOIN place ON musician.living_in = place.place_no
GROUP BY place.place_town HAVING COUNT(m_name) = (SELECT MAX(MUZISYEN_SAYISI) FROM
(SELECT place.place_town, COUNT(m_name) AS MUZISYEN_SAYISI FROM musician
INNER JOIN place ON musician.living_in = place. place_no GROUP BY place.place_town) AS
X)) AS Y )
ORDER BY comp_date
```

- ABD doğumlu olup ABD dışında kurulmuş bir grupta gitar çalarak performans sergilemiş müzisyenlerin adını ve grubunu listeleyin. (List the musicians and their bands, who have played guitar and were born in USA but have performed in a band whose home is outside USA).



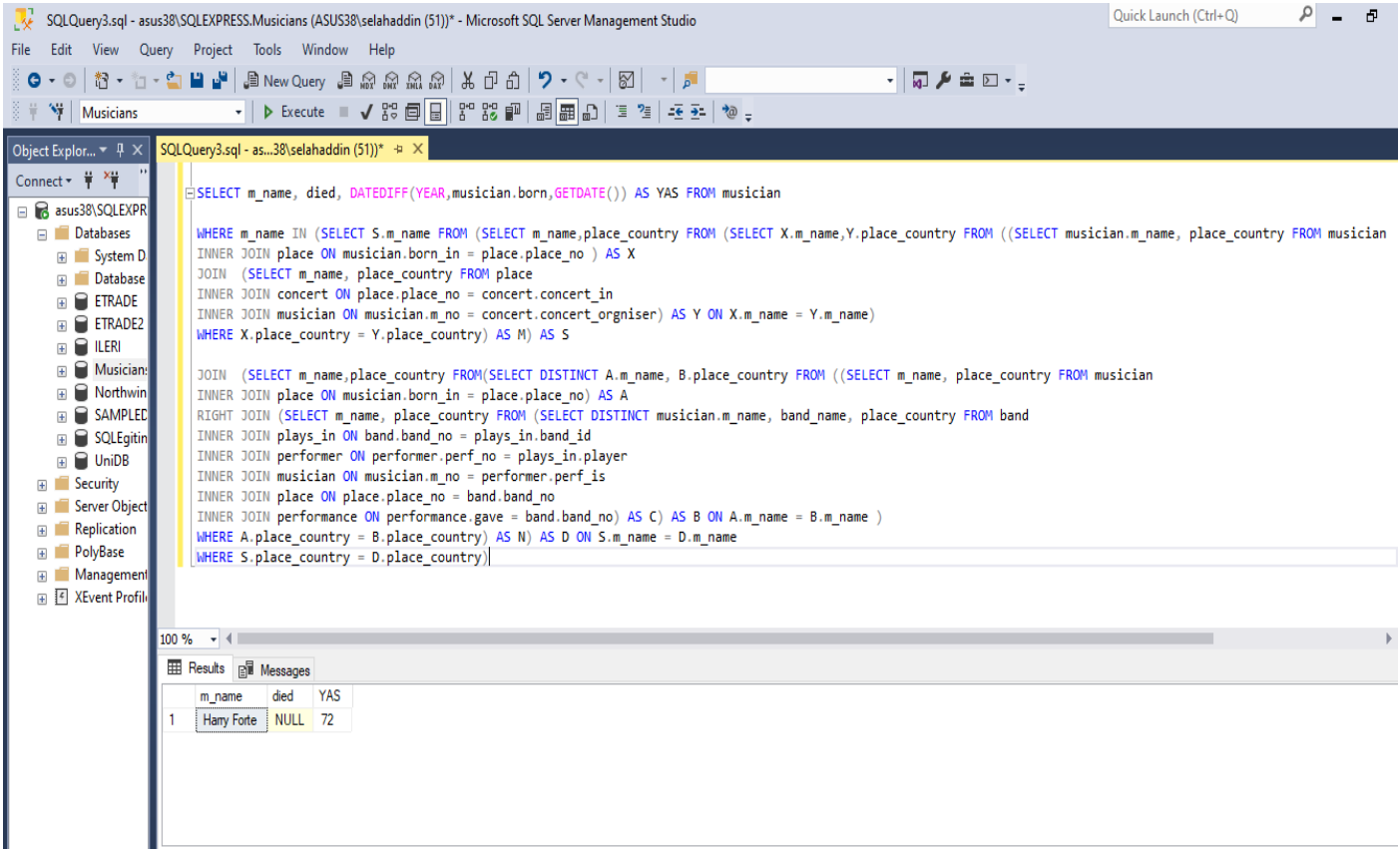

```
SELECT band.band_name, musician.m_name FROM band
INNER JOIN plays_in ON band.band_no = plays_in.band_id
INNER JOIN performer ON performer.perf_no = plays_in.player
INNER JOIN musician ON musician.m_no = performer.perf_is
WHERE band_name IN (SELECT band_name FROM band
INNER JOIN place ON band.band_home = place. place_no
WHERE place_country != 'USA') AND m_name IN ( SELECT musician.m_name FROM musician
INNER JOIN place ON musician.born_in = place.place_no
WHERE place_country = 'USA' ) AND performer.instrument = 'guitar'
ORDER BY band_name
```

- İngiltere doğumlu bir müzisyen tarafından bestelenmiş herhangi bir eseri icra eden grupların üyelerinin yaşadıkları şehirleri bulun ve buralarda belirtilen kriterlere uyan müzisyenlerin sayılarını büyükten küçüğe sıralayın.

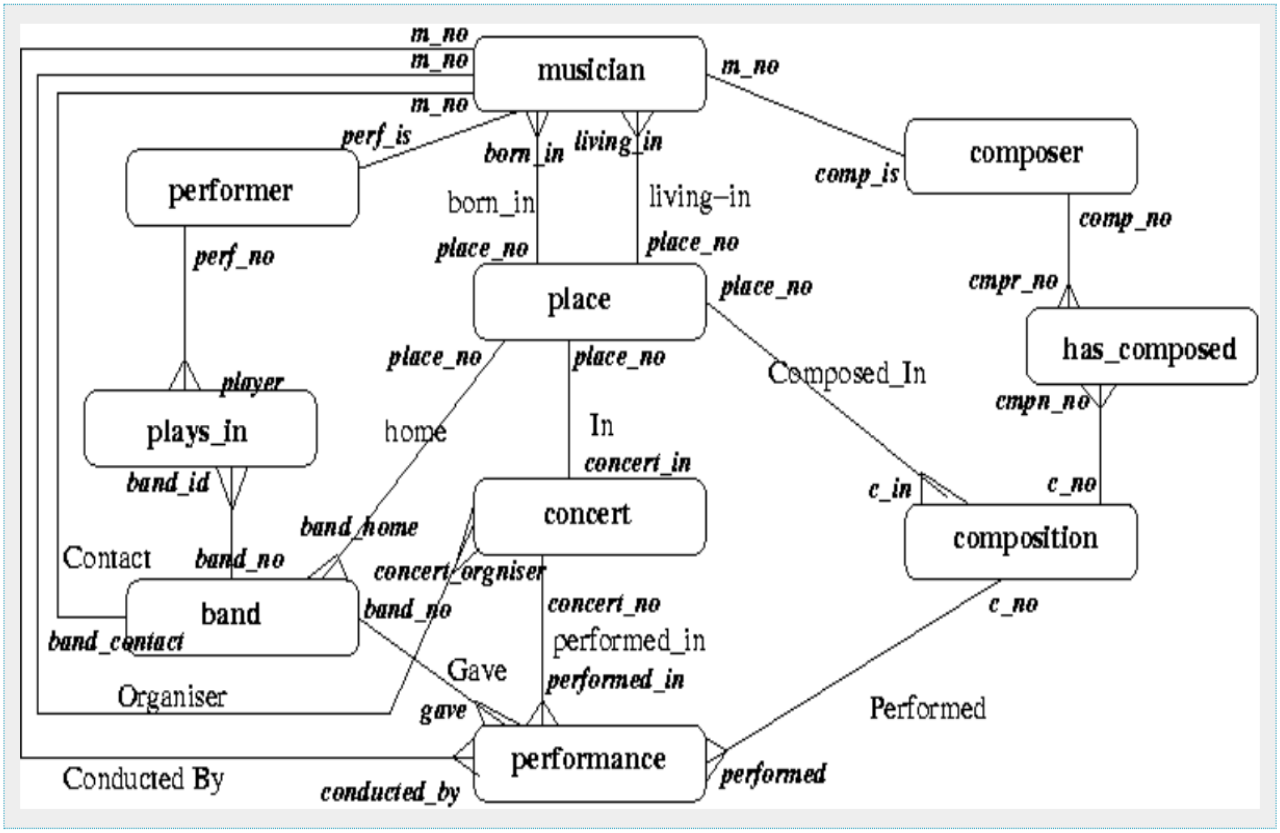



```
SELECT place_town, COUNT(*) AS M_SAYISI FROM (SELECT place_town FROM musician
INNER JOIN performer ON musician.m_no = performer.perf_is
INNER JOIN plays_in ON performer.perf_no= plays_in.player
INNER JOIN band ON band.band_no = plays_in.band_id
INNER JOIN place ON musician.born_in = place.place_no

WHERE band_name IN (SELECT band_name FROM musician
INNER JOIN composer ON musician.m_no = composer.comp_is
INNER JOIN has_composed ON composer.comp_no = has_composed.cmpr_no
INNER JOIN composition ON composition.c_no = has_composed.cmpn_no
INNER JOIN place ON musician.born_in = place.place_no
INNER JOIN performance ON performance.performed = composition.c_no
INNER JOIN band ON BAND.band_no = performance.conducted_by
WHERE place.place_country = 'ENGLAND')) AS X

GROUP BY place_town
ORDER BY M_SAYISI DESC
```

- Doğduğu ülkede konser organize etmiş; fakat doğduğu ülkede hiç bir zaman bir grup elemanı olarak performans sergilememiş bir müzisyen var mıdır? Varsa yaşıyor mudur? Yaşıyorsa kaç yaşındadır?




```
SELECT m_name, died, DATEDIFF(YEAR,musician.born,GETDATE()) AS YAS FROM musician

WHERE m_name IN (SELECT S.m_name FROM (SELECT m_name,place_country FROM (SELECT
X.m_name,Y.place_country FROM ((SELECT musician.m_name, place_country FROM musician
INNER JOIN place ON musician.born_in = place.place_no ) AS X
JOIN  (SELECT m_name, place_country FROM place
INNER JOIN concert ON place.place_no = concert.concert_in
INNER JOIN musician ON musician.m_no = concert.concert_orgniser) AS Y ON X.m_name =
Y.m_name)
WHERE X.place_country = Y.place_country) AS M) AS S
JOIN  (SELECT m_name,place_country FROM(SELECT DISTINCT A.m_name, B.place_country FROM
((SELECT m_name, place_country FROM musician
INNER JOIN place ON musician.born_in = place.place_no) AS A
RIGHT JOIN (SELECT m_name, place_country FROM (SELECT DISTINCT musician.m_name,
band_name, place_country FROM band
INNER JOIN plays_in ON band.band_no = plays_in.band_id
INNER JOIN performer ON performer.perf_no = plays_in.player
INNER JOIN musician ON musician.m_no = performer.perf_is
INNER JOIN place ON place.place_no = band.band_no
INNER JOIN performance ON performance.gave = band.band_no) AS C) AS B ON A.m_name =
B.m_name )
WHERE A.place_country = B.place_country) AS N) AS D ON S.m_name = D.m_name
WHERE S.place_country = D.place_country)
```


musician
performer
composer
place
plays_in
concert
band
performance
composition
has_composed
born_in
living–in
home
In
Composed_In
Contact
Organiser
Gave
performed_in
Performed
Conducted By
m_no
perf_is
born_in
living_in
comp_is
perf_no
place_no
comp_no
cmpr_no
player
cmpn_no
band_id
band_home
concert_in
c_in
c_no
band_no
concert_orgniser
concert_no
band_contact
performed_in
gave
conducted_by
performed