

Homework 3

- 1) $\text{SELECT name as artist_name FROM artists;}$
 $\pi_{\text{name}} = \text{artist_name}(\text{artists})$
- 2) $\text{SELECT years FROM albums WHERE years > 1990 AND years < 1995;}$
 $\pi_{\text{years}} (\sigma_{\text{years} > 1990 \text{ AND } \text{years} < 1995}(\text{albums}))$
- 3) $\text{SELECT * FROM albums JOIN artists ON artist.id = albums.artist_id;}$
 $\text{albums} \bowtie \text{artist.id} = \text{albums.artist_id} \rho(\text{artists})$
- 4) $\text{SELECT artists.name, albums.title FROM artists, albums;}$
 $\pi_{\text{artists.name, albums.title}}(\text{artists} \bowtie \text{albums})$
- 5) $\text{SELECT * FROM artists LEFT JOIN albums ON artists.id = albums.artist_id;}$
 $\text{albums} \bowtie \text{artists.id} = \text{albums.artist_id} \rho(\text{artists})$
- 6) $\text{SELECT * FROM albums LEFT JOIN artists ON albums.artist_id = artists.id;}$
 $\text{albums} \bowtie \text{artists.id} = \text{albums.artist_id} \rho(\text{artists})$

Broc Nickodemus

SELECT name ^{→ Alias} as artist_name FROM artists;
SELECT name as 'artist name' FROM artists as 'musicians'
LIKE '%S%' LIMIT 1 ORDER BY name
SELECT DISTINCT IS NOT NULL
SELECT count(*) _{↳ aggregate}, zip-code FROM artists
GROUP BY zip-code HAVING zip-code < 97703;

★ SELECT year FROM albums
WHERE year > 1990
AND year < 1995

ALTER TABLE tblname rename to | add column
SELECT artist.name, title FROM artists, albums
WHERE artists.id = albums.artist_id;

same

★ SELECT * FROM artists
JOIN albums on artist.id = albums.artist_id;
regular join
Left join
right join