/\* Find the name of artist that released the album “From A Room: Volume 1”. \*/

SELECT R.aname

FROM releases R

WHERE R.abtranum IN (SELECT A.abtranum

FROM album A

WHERE A.abname= 'From A Room: Volume 1');

/\* Find how many albums were released on 2018-04-13 \*/

SELECT A.date, COUNT(\*)

FROM album A

GROUP BY A.date

HAVING A.date= '2018-04-13';

/\* Find albums that have more than ten songs \*/

SELECT A.abname

FROM album A, song S, composed\_of C

WHERE A.abtranum = C.abtranum AND

C.stranum = S.stranum

GROUP BY S.aname

HAVING COUNT(\*)>10;

/\* Find the names of all songs that were written by the artist “Pentatonix” \*/

SELECT S.sname

FROM song S

WHERE S.aname IN (SELECT A.aname

FROM artist A

WHERE A.aname= 'Pentatonix');

/\* Find the total number of songs that are wriiten by artist ‘ Pentatonix’\*/ (new)

SELECT COUNT(DISTINCT S.stranum)

FROM song S

WHERE EXISTS (SELECT \*

FROM artist A

WHERE S.aname=A.aname AND A.aname= 'Pentatonix');

/\* Find the total number of songs that are composed of the album ''From A Room: Volume 1' \*/

SELECT COUNT(DISTINCT C.stranum)

FROM composed\_of C

WHERE EXISTS (SELECT \*

FROM song S

WHERE C.stranum=S.stranum AND S.abname= 'From A Room: Volume 1');

/\* Find name of artist with the maximum songs \*/

SELECT S.aname, COUNT(S.aname)

FROM song S

GROUP BY S.aname

ORDER BY COUNT(S.aname) DESC;

/\* List names of songs if ALL are composed of album ‘Rearview Town’ \*/ (New)

SELECT S.sname

FROM song S

WHERE S.abname = ALL (SELECT A.abname

FROM album A

WHERE A.abname=’Rearview Town’);

/\* List names of albums if ANY are released by the artist ‘Hillsong Worship’ \*/

SELECT abname

FROM album

WHERE abtranum = ANY (SELECT abtranum

FROM releases

WHERE aname = 'Hillsong Worship');

/\* Find artists who have more songs than one artist called “Chris Stapleton”. \*/

SELECT S.aname, COUNT(S.aname)

FROM song S

GROUP BY S.aname

HAVING COUNT(S.aname) > (SELECT COUNT(S2.aname)

FROM song S2

WHERE S2.aname = 'Chris Stapleton')

ORDER BY COUNT(S.aname) DESC;

/\* List names of featured artist if any use album ‘'A Pentatonix Christmas Deluxe’ \*/ (New)

SELECT F.faname

FROM feature F

WHERE F.abtranum = ANY (SELECT A.abtranum

FROM album A

WHERE A.abname='A Pentatonix Christmas Deluxe');

/\* List names of albums if ALL are released by the artist ‘LEDGER’ \*/ (New)

SELECT A.abname

FROM album A

WHERE A.abtranum = ANY (SELECT R.abtranum

FROM releases R

WHERE R.aname='LEDGER');

/\* CREATE INDEX \*/

CREATE INDEX IX\_firstChar ON artist (aname(1));

CREATE INDEX IX\_song\_name ON song (sname);

/\* CREATE VIEW \*/

/\*List all songs with artists and albums from song table \*/

CREATE VIEW V\_Songs

AS SELECT sname, abname, aname

FROM song;

/\* List all features artists from feature table \*/

CREATE VIEW V\_FeaturedArtists

AS SELECT faname

FROM feature;