Antes que nada, para que las consultas funcionen, se sobrentiende que se parte usando la base de datos con los datos correctos.

|  |
| --- |
| USE musicdb; |

# Select albums with track title equal to 'Yesterday' or 'Tomorrow'.

|  |
| --- |
| SELECT *\** FROM albums\_by\_track WHERE track\_title IN ('Yesterday', 'Tomorrow'); |

**Interfaz de usuario gráfica, Aplicación, Tabla

Descripción generada automáticamente**

Figura 1

# Select tracks with numbers between 8 and 12 for the album titled '20 Greatest Hits' in the year 1982.

|  |
| --- |
| SELECT *\** FROM tracks\_by\_album WHERE album\_title ='20 Greatest Hits' AND year = 1982 AND number >= 8 AND number <= 12; |

**Interfaz de usuario gráfica, Aplicación

Descripción generada automáticamente**

Figura 2

# Select albums with 'The Beatles' as performer.

|  |
| --- |
| SELECT *\** FROM albums\_by\_performer WHERE performer = 'The Beatles' |

**Interfaz de usuario gráfica, Texto, Aplicación, Correo electrónico

Descripción generada automáticamente**

Figura 3

**Select albums with 'The Beatles' as performer in a year between 1960 and 1980.**

|  |
| --- |
| SELECT *\** FROM albums\_by\_performer WHERE performer = 'The Beatles' AND year >= 1960 AND year <= 1980 |

**Interfaz de usuario gráfica, Texto, Aplicación, Correo electrónico

Descripción generada automáticamente**

Figura 4

# Select albums with 'The Beatles' as performer in a year between 1960 and 1980, ordered by year (from 1960 to 1980)

|  |
| --- |
| SELECT *\** FROM albums\_by\_performer WHERE performer = 'The Beatles' AND year >= 1960 AND year <= 1980 ORDER BY year asc; |

**Interfaz de usuario gráfica, Texto, Aplicación, Correo electrónico

Descripción generada automáticamente**

Figura 5

# Select albums in a year between 1960 and 1980, obtaining only 50 rows.

En este caso no hay ninguna tabla que me facilite esta consulta podría crear albums\_by\_year o usar un secondary index. Yo por agilizar las cosas voy a usar un allow filtering, aunque no es lo más eficiente.

|  |
| --- |
| SELECT *\** FROM album WHERE year >= 1960 AND year <= 1980 LIMIT 50 ALLOW FILTERING; |

**Interfaz de usuario gráfica, Aplicación

Descripción generada automáticamente**

Figura 6

# Select performers with style equal to 'Rock'.

|  |
| --- |
| SELECT *\** FROM performers\_by\_style WHERE style='Rock'; |

**Interfaz de usuario gráfica, Texto, Aplicación, Correo electrónico

Descripción generada automáticamente**

Figura 7

# Select performers with style equal to 'Rock' and a country with a name starting with V, W, X, Y or Z.

En este caso deberíamos usar la tabla de performers\_by\_style. Sin embargo, no contiene la columna de country. Sería posible crearla con un ALTER TABLE e insertar los valores para que la consulta fuera eficiente.

|  |
| --- |
| CREATE TABLE musicdb.performer (  name VARCHAR,  type VARCHAR,  country VARCHAR,  style VARCHAR,  founded INT,  born INT,  died INT,  PRIMARY KEY (name) );  CREATE TABLE musicdb.performers\_by\_style (  style VARCHAR,  name VARCHAR,  PRIMARY KEY (style, name) ); |

En mi caso voy a filtrar en la tabla performer y usar un allow filtering aunque sea una consulta no eficiente.

|  |
| --- |
| SELECT *\** FROM performer WHERE style='Rock' AND country >= 'V' ALLOW FILTERING; |

Interfaz de usuario gráfica, Aplicación, Tabla

Descripción generada automáticamente

Figura 8

# Select users with at least one preference equal to 'Rock’.

Esta consulta es posible gracias al index definido de las preferencias.

|  |
| --- |
| SELECT *\** FROM user WHERE preferences CONTAINS 'Rock’; |

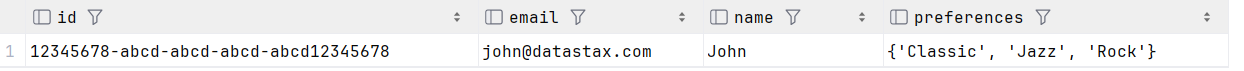
****

Figura 9

# Select albums with 'The Beatles' as performer and 'Rock' as gender, in a year before 1980.

|  |
| --- |
| SELECT *\** FROM musicdb.albums\_by\_genre WHERE performer= 'The Beatles' AND genre ='Rock' AND year < 1980; |

Interfaz de usuario gráfica, Aplicación, Tabla

Descripción generada automáticamente

Figura 10

# Select albums with 'The Beatles' as performer and 'Rock' as gender in 1964 with a title starting with A or B.

|  |
| --- |
| SELECT *\** FROM musicdb.albums\_by\_genre WHERE performer= 'The Beatles' AND genre ='Rock' AND year = 1980 AND title <= 'B'; |

Interfaz de usuario gráfica, Aplicación, Teams

Descripción generada automáticamente

Figura Sin resultados