1)
SELECT count(*) FROM album WHERE start_date >="first_date"AND end_date <="second_date"
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2) SELECT count(*) FROM track_musician LEFT JOIN musical_track ON musical_track.id = track_musician.track_id left join person on track_musician.musician_id = person.id WHERE recording_date between "first_date + "AND " + second_date "AND person.name = " name_of_musician"

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3) SELECT DISTINCT count(album.id), person.name FROM track_musician LEFT JOIN musical_track ON track_musician.track_id=musical_track.id LEFT JOIN person ON track_musician_id=person.id LEFT JOIN tracks_album ON musical_track.id= tracks_album.track_id LEFT JOIN album ON album.id=tracks_album.album_id WHERE start_date >= first AND end_date <= second AND person.name = fname;

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4)
SELECT instrument_type.description, instrument_id, count(instrument_id) AS ct FROM track_instruments LEFT JOIN instruments_stock ON track_instruments.instrument_id = instruments_stock.id LEFT JOIN instrument_type ON instruments_stock.instrumen_type_id = instrument_type.id GROUP BY instrument_id ORDER BY ct DESC LIMIT 1;"

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```
select
          tracks_album.album_id,
          tracks album.album name,
          tracks_album.track_id,
          track_instruments.instrument id,
          instrument_type.description,
          manf.manufacturer name
from track instruments
          left join tracks album
on track_instruments.track_id=tracks_album.track_id
          left join instruments stock as ins stock
on ins_stock.id=track_instruments.instrument_id
          left join instrument type
on ins_stock.instrumen_type_id = instrument_type.id
          left join manufacturers as manf
                                                   on ins stock.manufacturer id=manf.id
where tracks album.album name=?
π
a.album id,a.album name,a.album id,a.track id,i.instrument id,it.description,m.manufacturer name{
\sigma a.album_name=X { ((i)\bowtiei.track_id=a.track.id(a))\bowtieis.id = i.instrument_id(is)\bowtieis.instrument_type_id
= it.id(it) is.manufacturer=m.id(m)}}
ρ(a, tracks_album)
p(i, track instruments)
p(it , instrument_type)
ρ(m, manufacturer)
```

6) SELECT person.name FROM album_producer LEFT JOIN album ON album_producer.album_id=album.id LEFT JOIN person ON person.id= album_producer.producer_id WHERE (start_date >= first_date AND end_date <= second_date) GROUP BY album_producer_id LIMIT 1;

 π person.name

7) SELECT manufacturer_name FROM(SELECT instruments_stock.manufacturer_id, count(instruments_stock.manufacturer_id) as ct FROM track_instruments LEFT JOIN instruments_stock ON track_instruments.instrument_id = instruments_stock.id GROUP BY instruments_stock.manufacturer_id ORDER BY ct DESC LIMIT 1) AS manf LEFT JOIN manufacturers on manf.manufacturer_id = manufacturers.id;

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8) SELECT count(DISTINCT (track_musician.musician_id)) AS ct FROM track_musician;

9) SELECT musician_musician_name, COUNT(*) AS count FROM song_with INNER JOIN musician ON song_with.musician_id = musician.musician_id GROUP BY musician.musician_name ORDER BY count DESC LIMIT 1;

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- 10) SELECT genre FROM musical_track GROUP BY musical_track.genre LIMIT 1;
- 11) SELECT person.name FROM musical_track LEFT JOIN `person` ON musical_track.technician_id = person.Id WHERE (recording_date >= "" + first + "" AND recording_date <= "" + second + "")
 GROUP BY musical_track.technician_id LIMIT 1;
 count
- 13) SELECT track_name FROM tracks_album RIGHT JOIN musical_track ON tracks_album.track_id = musical_track.id GROUP BY tracks_album.track_id HAVING count(track_id) >1; count
- 14)
 SELECT distinct(person.name) FROM (SELECT tb.album_id,tb.technician_id,count(tb.technician_id)
 AS ct FROM (SELECT track.id , track.track_name , tracks_album.album_id ,
 track.technician_id ,count(technician_id) FROM musical_track AS track LEFT JOIN tracks_album ON
 track.id = tracks_album.track_id GROUP BY track.technician_id ,tracks_album.album_id ORDER BY
 tracks_album.album_id ASC) AS tb GROUP BY tb.album_id) AS tb1 LEFT JOIN person ON
 person.id=tb1.technician_id WHERE tb1.ct =1;

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- 15)
 SELECT tb.name FROM (SELECT musician_id, genre ,person.name,count(*) AS ct FROM track_musician LEFT JOIN musical_track ON track_musician.track_id =musical_track.id LEFT JOIN person ON person.id = musician_id GROUP BY musician_id, genre) AS tb GROUP BY tb.name ORDER BY count(tb.musician_id) DESC LIMIT 1;

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