

SQL exercises

Please use Google Chrome  on a PC

Connecting to

Ex.1 - Consider the schema of the Chinook database. Is it possible for albums not to be associated with tracks?

- ☒ Yes, because the Album table has no attribute referencing the primary key of the Track table.
- ☐ No, because integrity constraints are bidirectional.
- ☐ No, because entity integrity constraints do not allow tables to have null values for foreign key attributes.
- ☐ Yes, the TrackId attribute of the Album table can be NULL.

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Ex.2 - Consider the following query (The TIMESTAMPDIFF returns the difference in years between two dates. See http://dev.mysql.com/doc/refman/5.7/en/date-and-time-functions.html#function_timestampdiff).

Which statement better describes the meaning of the query?

click [here](#) for the schema

```
SELECT c.FirstName, c.LastName, c.Country
FROM Chinook.customer AS c, Chinook.employee AS e
WHERE c.supportRepId = e.employeeId
AND TIMESTAMPDIFF(year, birthdate, hiredate) < 35
```

- ☐ List the names and the countries of those employees that took less than 35 years to answer a customers.
- ☐ List the names and the countries of those customers who are supported by an employee younger than 35.
- ☒ List the names and the countries of those customers who are supported by an employee who was younger than 35 when hired.
- ☐ List the names and the countries of those customers who are supported by an employee hired less than 35 years ago.

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Ex.3 - Retrieve the name of Artists that published an album having a 3-letter title that contains a 2-letters song

click [here](#) for the schema



```
1 SELECT DISTINCT Artist.Name
2 FROM Artist JOIN Album ON Artist.ArtistId = Album.ArtistId
3 JOIN Track ON Album.AlbumId = Track.AlbumId
4 WHERE Album.Title LIKE "___" AND Track.Name LIKE "__"
```

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Ex.4 - Retrieve the name of all the pair of artists that published an album containing the number 5 in the title

click [here](#) for the schema



```
1 SELECT ar1.name, ar2.name
2 FROM Album AS al1, Album AS al2, Artist AS ar1, Artist AS ar2
3 WHERE al1.title LIKE "%5%" and al2.title LIKE "%5%"
4 AND al1.AlbumId < al2.AlbumId
5 AND al1.ArtistId = ar1.ArtistId AND al2.ArtistId = ar2.ArtistId
```

Ex.5 - Retrieve the name of composers of classical songs longer than 5 minutes

click [here](#) for the schema



```
1 SELECT DISTINCT Composer
2 FROM track JOIN Genre ON track.GenreId = Genre.GenreId
3 WHERE Genre.Name = "Classical" AND track.Milliseconds > 300000
4 ORDER BY track.Milliseconds DESC
```