

**Course Title: Data Modeling and Normalization with MySQL**

Date: 06 August 2020

In-class Exam (15%)

Mark: 15

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**Note 1-5 are based on 'classicmodels' database. Please provide your SQL as text below each question. (DML)**

I found the 1-5 questions are for chinook database as the table and field names match in there.

1. List all the employee who are hired in the year in 2002 and lives in 'Edmonton'? Note: 'HiredDate' is a datetime column, you need to convert it to date using Date(). (2)

```
use chinook;  
select * from employee  
where City = 'Edmonton' and Extract(year from date(HireDate)) = 2002;
```

2. List all the countries which has more than 10 customers? (2)

```
select * from customer group by Country having count(CustomerId)>10;
```

3. List top 5 counties with most invoiced amount? "see use of 'LIMIT'" (2)

```
select BillingCountry, sum(Total) from Invoice  
group by BillingCountry  
order by sum(Total) desc  
Limit 5;
```

4. List all Track Names for Artist "Black Label Society"? (Hints: multilevel subqueries) (2)

```
select Name from track  
where AlbumId in  
(select AlbumId from Album  
where ArtistId in  
(select ArtistId from Artist  
where Name = 'Black Label Society'));
```

5. Find out the most expensive track names from Chinook database (with highest UnitPrice)? Hint: use 'MAX' (2)

```
select Name, UnitPrice from track where UnitPrice in (select Max(UnitPrice) from track);
```

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**Note 6-8 are based on 'classicmodels' database. Please provide your SQL as text below each question. (DDL)**

6. What is the difference between DROP TABLE and TRUNCATE TABLE? (1)

Answer - Drop Table will remove the table from the database with all its records while the Truncate Table will remove all the records or rows of a certain table.

Drop Table album;

Truncate Table album;

7. Write the SQL to update 'City' name to 'Winterpeg' where the customer is from 'Winnipeg'? (2)

update customers

set city ='Winterpeg' where city='Winnipeg';

8. Write the SQL to update column name 'Phone' to 'contact\_no' in 'Customer' table? (2)

ALTER TABLE customers RENAME COLUMN city TO city\_name;