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PREPARED BY CHASITY DAVIS

Part 1 - Create Table

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Create a table called Orders, with the following information:

1. Primary Key called OrderID

2. Company Name (include a NOT NULL constraint)

3. Address

4. City

5. Phone

6. Order Date in DATE format

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**CREATE** **TABLE** orders

(

orderID **int** **PRIMARY** **KEY**,

companyname **varchar** (255) **NOT** **NULL**,

address **varchar** (50),

city **varchar** (50),

phone **varchar** (20),

orderdate **timestamp**

);

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orderid companyname address city phone order date

1 Acme 14 Hollywood Blvd Los Angeles 616-555-1234 1/14/15

2 Amazon 2801 S Western Ave Chicago 234-345-5151 5/2/15

3 Netflix 888 Broadway New York 642-612-6123 6/7/15

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**INSERT** **INTO** orders

**VALUES**

(1, 'Acme', '14 Hollywood Blvd', 'Los Angeles', 616-555-1234, 1/14/15),

(2, 'Amazon', '2801 S Western Ave', 'Chicago', 234-345-5151, 5/2/15),

(3, 'Netflix', '888 Broadway', 'New York', 642-612-6123, 6/7/15);

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• Create a query that will select company name, address, and city from the Orders table for companies located in Chicago.

• Create a query that will select all the records from the Orders table where the company name starts with an "A".

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**SELECT**

companyname, address, city

**FROM**

orders

**WHERE**

city = 'Chicago';

**SELECT** \*

**FROM**

orders

**WHERE**

companyname **LIKE** 'A%'

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Part 2 - Sample Database - musicstore

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--Write a query that will list all of the genre names and a count of the tracks for each genre. Sort the list by largest track count to smallest.

**SELECT**

g.name, **count**(t.trackid) **AS** numberoftracks

**FROM**

genre g

**JOIN** track t

**ON** g.genreid = t.genreid

**GROUP** **BY**

g.name

**ORDER** **BY**

numberoftracks **DESC**;

--Write a query that will list all of the track names and the album names from the artist named ‘Jamiroquai’.

**SELECT**

a.title, t.name

**FROM**

album a

**JOIN**

track t

**ON**

a.albumid = t.albumid

**JOIN**

artist a2

**ON**

a.artistid = a2.artistid

**WHERE**

a2.name = 'Jamiroquai';

--Write a query that will determine the top 5 countries measured by total revenue (dollars) sold by billing country. Include country and total revenue.

**SELECT**

billingcountry, **round**(**sum**(total)) **AS** totalrevenue

**FROM**

invoice

**GROUP** **BY**

billingcountry

**ORDER** **BY**

totalrevenue **DESC**

**LIMIT** 5;

--Write a query that determines the total sales (in dollars) by global region. Create a new column for global\_region, and use ‘Asia Pacific’ for India and Australia, ‘North America’ for Canada and the USA, ‘South America’ for Chile, Brazil and Argentina, and ‘Europe’ for the rest.

**SELECT**

i.BillingCountry, **round**(**sum**(i.total)),

**CASE**

**WHEN** BillingCountry = 'USA' **OR** BillingCountry = 'Canada' **THEN** 'North America'

**WHEN** BillingCountry = 'India' **OR** BillingCountry = 'Australia' **THEN** 'Asia Pacific'

**WHEN** BillingCountry = 'Chile' **OR** BillingCountry = 'Brazil' **OR** BillingCountry = 'Argentina' **THEN** 'South America'

**ELSE** 'Europe'

**END** **AS** Global\_Region

**FROM**

Invoice i

**GROUP** **BY**

i.BillingCountry

**ORDER** **BY**

**count**(i.Total) **DESC**;

--Write a query that lists the artists that don’t have albums.

**SELECT**

ar.name, al.AlbumId

**FROM**

album al

**RIGHT** **JOIN**

artist ar

**ON**

ar.artistid = al.artistid

**WHERE**

AlbumId **IS** **NULL**;

--Write a query that lists all the invoice amounts, their billing country, and another column with the total amount of revenue from that country. Sort largest to smallest.

**SELECT**

total, billingcountry, **sum**(total) **over**(**PARTITION** **BY** billingcountry)

**FROM**

invoice;