**SQL Test - Consumer Revenue Analytics**

## **PART 1:**

The schema for a *video database* within the Conde Nast Entertainment (CNE) group is as follows:

**Users**

| UserID | LastName | FirstName |
| --- | --- | --- |

**Inventory Record**

| CassetteID | VideoID |
| --- | --- |

**Videos**

| VideoID | VideoName |
| --- | --- |

**VideoSeller**

| SellerID | VideoID | Price |
| --- | --- | --- |

**Orders**

| OrderID | SellerID | VideoID | Copies |
| --- | --- | --- | --- |

**Rentals**

| UserID | CassetteID | CheckoutDate | Duration |
| --- | --- | --- | --- |

**Sellers**

| SellerID | SellerName |
| --- | --- |

**1. Write out SQL statements for each of the following 5 queries:**

* Which videos are sold by "Conde\_Nast Video " or "Conde\_Nast\_Entertainment Video"?
* Which sellers supply all the videos in the inventory? (Hint: first **get a list of the video sellers and all the videos in the inventory** using the cross product. Then find out **which of these tuples are invalid**.)
* How many videos in the inventory record does each video seller supply? That is, for each video seller, calculate the number of videos it supplies that also happen to be videos in the inventory.
* Which seller has the cheapest price for the video "Vogue 50 Fall Fashion Ideas"?
* For which videos are there more than 1 copy in our inventory? (Note that the CassetteID in inventory is different for different copies of the same VideoID)

## **PART 2:**

For this section of the test, please refer to the following *datasets* (csv attachments). Please supplement each answer with SQL statements, key insights and data visualizations (where applicable)

**Available Tables >>**

1. *USANames*
   1. Fields: Id, Name, Year, Gender, Count
2. *NamesByState*
   1. Id, Name, Year, Gender, State, Count,

* Analyze the 50 most popular and the 50 least popular female names in the last 5 years, under 6 characters and start with the letter “A’.
  + Provide (1) SQL statements that pull data for most popular and least popular female names (2) key takeaways/insights around this data