Python for Business Analytics – ECO 32500-ONL (Summer I 2022) Mon-Fri 4pm-6:30pm (asynchronous), Jun 6 – Jul 5, 2022

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SQL Check-Up

Given the two data tables below, please provide SQL queries for the following questions. If needed, you can segment your answer into more than one query.

Viewership Table: fact view

Field	Data Type
video_id	varchar
session_id	varchar
date	timestamp
user_id	varchar
seconds_watche	int

Series Metadata Table: dim video

Field	Data Type
video_id	varchar
episode_name	varchar
episode_number	int
season_number	int
series_name	varchar
runtime_seconds	int
genre	varchar

1. How many unique viewers did Game of Thrones & Westworld garner in the past 7 days? [Hint: use series_names]

What do I have to look at? View.User_ID = unique users Series_names = name of the show Date = day

SELECT DISTINCT view.user_id, video.series name,

view.date

FROM fact view AS view

LEFT JOIN fact_view

ON view.video id = video.video id

WHERE view.date >= (start_date-7)

AND view.date <= (Start_date)

GROUP BY video.series name ('games of thrones', 'westworld')

2. What is the average completion rate (seconds watched divided by runtime) for the first episode of every series?

What do I have to look at?

video.series_name

view.seconds watched

video.runtime seconds

video.episode_number

SELECT video.series_name
 AVG(view.seconds_watched / video.runtime_seconds) AS completion rate
FROM fact_view AS view
 LEFT JOIN dim_video
 ON view.video_id = video.video_id
WHERE video.episode_number = 1
 AND video.season_number = 1

Extra Credit:

3. What is the 2nd most watched episode per genre in terms of minutes watched?