Name: Zach Lawless UNI: ztl2103

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COMS W4111 Homework 2 Written

- A table stores the actual data, whereas a view is a definition built on top tables and/or views that references the underlying artifacts in order to generate the output. A view stores no data, whereas a table does.
- The GROUP BY statement is often used for aggregating data into a summarized fashion
 for certain groups within the data. A single column or multiple columns from the table
 are passed to GROUP BY, where all possible combinations of values within the column/s
 are the groups of which the aggregate functions are applied to.
- 3. HTTP stands for Hyper Text Transfer Protocol and is a mechanism for communication to and from computers and web servers. The communication works in two ways: The computer sends an HTTP Request via a browser to the web server, where the web server receives and processes the request, and returns an HTTP Response.
- 4. The characteristics of a RESTful interface are:
 - 1. Client-Server: Separating user interface and data improves portability and scalability
 - 2. Stateless: Session state is kept entirely on the client
 - 3. Cacheable: Data within response is either cacheable of non-cacheable
 - 4. Uniform Interface: Overall system architecture is simplified and visibility is improved via interface constraints
 - 5. Layered System: Architecture comprised of hierarchical layers
 - 6. Code on demand (optional): downloadable executables simplifies client preimplementation requirements
- 5. The results of the queries given the tables are represented below:

a.

name	birth_month	astrological_sign
Aly	September	Aquarius
Don	September	Virgo
Ara	September	Virgo
Meghna	June	Gemini
Kirit	May	NULL

b.

name	birth_month	astrological_sign
Aly	September	Aquarius
Don	September	Virgo
Ara	September	Virgo

Meghna	June	Gemini
Kirit	May	NULL

c.

name	birth_month	astrological_sign
Aly	September	Aquarius
Don	September	Virgo
Ara	September	Virgo
Meghna	June	Gemini

d.

name	birth_month	astrological_sign
Aly	September	Aquarius
Don	September	Virgo
Ara	September	Virgo
Meghna	June	Gemini

6. The HTTP response code table is filled out below

Code	Meaning
200	OK
201	CREATED
400	BAD REQUEST
401	UNAUTHORIZED
300	MULTIPLE CHOICE
403	FORBIDDEN
404	NOT FOUND
500	INTERNAL SERVER ERROR