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Date: 10/16/19

# COMS W4111 Homework 2 Written

1. 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.
2. 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:
5. Client-Server: Separating user interface and data improves portability and scalability
6. Stateless: Session state is kept entirely on the client
7. Cacheable: Data within response is either cacheable of non-cacheable
8. Uniform Interface: Overall system architecture is simplified and visibility is improved via interface constraints
9. Layered System: Architecture comprised of hierarchical layers
10. Code on demand (optional): downloadable executables simplifies client pre-implementation requirements
11. The results of the queries given the tables are represented below:

|  |  |  |
| --- | --- | --- |
| name | birth\_month | astrological\_sign |
| Aly | September | Aquarius |
| Don | September | Virgo |
| Ara | September | Virgo |
| Meghna | June | Gemini |
| Kirit | May | NULL |



|  |  |  |
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1. 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 |