

## 6.6.4 Project User Roles

Each user will have at least two roles per *user\_id* and *project\_id* combination. These two roles can be further defined as a **Data Protection role** and a **Hive Management role**.

The data protection role establishes the detail of data the user can see while the hive management role defines the level of functionality the user has in a project. The following tables summarize the roles in a hierarchical order of least to most access.

### Data Protection Roles

Role	Access Description
DATA_O BFSC	OBFSC = Obfuscated <ul style="list-style-type: none"><li>The user can see aggregated results that are obfuscated (example: patient count).</li><li>The user is limited on the number of times they can run the same query within a specified time period. If the user exceeds the maximum number of times then their account will be locked and only the Admin user can unlock it.</li></ul>
DATA_A GG	AGG = Aggregated <ul style="list-style-type: none"><li>The user can see aggregated results like the patient count.</li><li>The results are not obfuscated and the user is not limited to the number of times they can run the same query.</li></ul>
DATA_L DS	LDS = Limited Data Set <ul style="list-style-type: none"><li>The user can see all fields except for those that are encrypted.</li><li>An example of an encrypted field is the blob fields in the fact and dimension tables.</li></ul>
DATA_D EID	DEID = De-identified Data <ul style="list-style-type: none"><li>The user can see all fields including those that are encrypted.</li><li>An example of an encrypted field is the blob fields in the fact and dimension tables.</li></ul>
DATA_P ROT	PROT = Protected <ul style="list-style-type: none"><li>The user can see all data, including the identified data that resides in the Identity Management Cell.</li></ul>

### Hive Management Roles

Role	Access Description
USER	Can create queries and access them if he / she is the owner of the query.
MANAGE R	Can create queries as well as access queries created by different users within the project.



#### Note

Additional roles can be added to the PM\_PROJECT\_USER\_ROLES table but there will not be any recognized hierarchy to those roles.