

Milestone #3

Relational Algebra

τ : Sort

γ : Group By

Gname: Aggregate Function name

Query 1: (review)

5τ num_successful_attacks desc

π Name, Gcount(*) \rightarrow num_successful_attacks (σ result = 'Victory' (char_combat_status))

γ Name

Query 2:

π Name, Gcount (*) \rightarrow num_attacks (σ num_attacks > 5 (char_combat_status)) γ name

Query 3:

τ num_attacks desc

π Name, Gcount(*) \rightarrow num_attacks (char_combat_status) γ Name

Query 4:

π Forename, Surname, Gcount(*) (σ Gcount(*) \geq 5 (Player \bowtie Owns_Character)) γ AccountNo(Player)

Query 5:

π item, Gcount(AccountNo(Player)) \rightarrow num_players

(σ Gcount(π AccountNo) \geq 10 (weapon_inv \bowtie (Owns_Character \bowtie Player))) γ item