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graph TD
    subgraph User
        Start(( )) -- user login --> D1{ }
        D1 -- No --> S1[Show Initial Recommendation]
        D1 -- yes --> D1
        Like[Like or dislike content] --> D2{ }
        Logout[logout] --> Exit[Exit System]
        Exit --> End(( ))
    end

    subgraph System
        S1 --> SQ[Search Query]
        SQ --> SR[Sort Results]
        SR --> Like
        SR -- yes --> Logout
        SR -- no --> D3{ }
        D3 -- yes --> Exit
        D3 -- no --> Note[More recommendation state is false]
    end

    subgraph Data_Base [Data Base]
        Get[Get old recommendation] --> M1[ ]
        M1 --> S1
        SR --> M2[ ]
        M2 --> UH[Update History]
        M2 --> ACS[Add Content Specific rating]
        UH --> M3[ ]
        ACS --> M3
        M3 --> D4{ }
        D4 -- yes --> Logout
        D4 -- no --> D5{ }
        D5 --> Note
    end

    D1 -- yes --> Get
    Get --> M1
    M1 --> S1
    S1 --> SQ
    SQ --> QR[Query Results]
    QR --> SR
    SR --> Like
    Like --> M2
    M2 --> UH
    M2 --> ACS
    UH --> M3
    ACS --> M3
    M3 --> D4
    D4 -- yes --> Logout
    D4 -- no --> D5
    D5 --> Note
  
```