



“...Adopt our system to prevent this from happening with your barrack”

The Barrack Brigade:

Barracks Management DB

Project Final Phase

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Functional Requirements Implemented

I. Retrievals

1. Selection:

1. Select all soldiers working in a unit: This query retrieves information about all soldiers assigned to a specific military unit.
2. Select all soldiers registered in a mess: Retrieves information about soldiers who are registered in a particular mess.
3. Select all the soldiers having a particular rank: Retrieves information about soldiers with a specific rank, such as Lieutenant or Commander.
4. Select all the soldiers above some particular age: Retrieves information about soldiers who are above a specified age.

2. Projection:

1. List all the equipment issued on a particular date: This query retrieves a list of equipment that was issued on a specific date.
2. List the number of soldiers in each sector: Retrieves a count of soldiers in each sector.

3. Aggregate:

1. Average salary of all the soldiers in a barrack: Calculates the average salary of soldiers in a particular barrack.
2. The total number of military equipment in all the sectors: Calculates the total number of military equipment across all sectors.

4. Search:

1. Search for initial 'Sh' in the soldiers table: Retrieves information about soldiers whose names start with 'Sh'.
2. Search for the sector name with the initial 'ja' in the sector table: Retrieves information about sectors with names starting with 'ja'.
3. Search for all the messes which serve some particular food item: Retrieves messes that serve a specific food item, for example, "sabudana khichdi".

II. Analysis

1. Display sector names by soldier strength: Present sector names in decreasing order based on the number of soldiers in a unit.
2. Display popular messes in a sector: Show mess names in a sector in decreasing order of popularity based on daily attendance.

III. Modifications

1. INSERT:

- a. Insert new soldier details: Add information about a new soldier, including username, email, barrack, and bunk bed assignment.
- b. Insert details of a new barrack: Record information when a new barrack is constructed.
- c. File a new complaint: Add details of a new complaint.
- d. Add new equipment/bunk bed: Record information about newly added military equipment or bunk beds.
- e. Add a new mess: Include details of a newly added mess.

2. DELETE:

- a. Delete soldier details: Remove information of soldiers who have left the barrack.
- b. Delete equipment/bunk bed details: Remove details of retired equipment or bunk beds.
- c. Delete a mess: Eliminate information about a specific mess.

3. UPDATE:

- a. Update passwords: Modify and update user passwords.
- b. Update soldier's personal information: Adjust details like phone number, rank, address, and salary.
- c. Update barracks information: Modify information related to barracks, including maintenance, landline number, type, and residents.

IV. Execute Queries

User can execute queries of their choice and get the required output.