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# Data Types

# Business Logic Constraints

User

* New users have to be manually configured by the database administrator to set up their account
* Use’s district assignment will be manually configured by the database administrator

Product

* All products are available and sold at all stores
* The price of a product is same across all stores
* Each product is assigned to one manufacturer
* Each product belongs to one or more category

Holiday

* If a date is already in database as a holiday, a user can’t add it any more
* Only users are assigned to all districts can add holidays

Main Menu

* **The following statistics should be shown for all data in the data warehouse regardless of the user's access level: a welcome message with the user's full name, count of stores, cities, districts manufacturers, products and holidays**
* Reports are available based on report type and user’s access level:
  + General reports are available to all users
  + District reports should return data based on the district(s) assigned to the logged-in user
  + Corporate reports are only available to users who have been granted access to all districts

Audit Log

* Only users with audit log permission can view audit log
* Users who are allowed to view the audit log within the data warehouse UI will have a special flag set on their account

# Task Decomposition with Abstract Code

## Login

Task Decomp

Abstract Code

## Main Menu

Task Decomp

Abstract Code

## View Report

Task Decomp

Abstract Code

## Holiday Form

Task Decomp

Abstract Code

## View Audit Logs

Task Decomp

Abstract Code