

Data Dictionary

for Bank Management System

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Accounts Table

Field Name	Data Type	Field Length	Constraint	Description
username	varchar	20	Primary Key	Login username for the account, unique
password	varchar	30	Not Null	Login password for the account
balance	money	10	Not Null	Current balance in the account
open_date	date	10	Not Null	Account open date

Clients Table

Field Name	Data Type	Field Length	Constraint	Description
clientID	Int	10	Primary Key	Client ID, Auto Generated
username	varchar	20	Foreign key	Username in the account table
firstName	varchar	20	Not Null	First Name of the Client
lastName	varchar	20	Not Null	Last Name of the Client
gender	varchar	20	Not Null	The gender of the client
country	varchar	20	Not Null	The Client's Country
SSN	varchar	20	Not Null	The Client's Social Security Number
birthdate	date	10	Not Null	The Client's Birth Date
email	varchar	30	Not Null	Valid e-mail address for the Client
income	money	10	Not Null	The income of the Client
balance	money	10	Not Null	The balance of the Client
phoneNumber	varchar	15	Not Null	Valid phone number for the Client
address	varchar	50	Null	The address of the Client

Transactions Table

Field Name	Data Type	Field Length	Constraint	Description
trans_ID	int	10	Primary Key	Transaction ID, Auto Generated
clientID	int	10	Foreign Key	Client ID, Auto Generated
agentID	int	10	Foreign Key	Agent ID, Auto Generated
trans_date	date	10	Not Null	Transaction process date
trans_type	varchar	20	Not Null	The type of the transaction
amount	money	10	Not Null	The amount of the transaction process

Departments Table

Field Name	Data Type	Field Length	Constraint	Description
department_ID	Int	10	Primary Key	Department ID, Auto Generated
name	varchar	20	Not Null	The name of the department

Managers Table

Field Name	Data Type	Field Length	Constraint	Description
managerID	int	10	Primary Key	Manager ID, Auto Generated
username	int	10	Foreign key	Username of the account
department_ID	int	10	Foreign Key	Department ID, Auto Generated
firstName	varchar	20	Not Null	First Name of the Manager
lastName	varchar	20	Not Null	Last Name of the Manager
email	varchar	30	Not Null	Valid e-mail address for the Manager
phoneNumber	varchar	15	Not Null	Valid phone number for the Manager
address	varchar	50	Null	The address of the Manager

Agents Table

Field Name	Data Type	Field Length	Constraint	Description
agentID	int	10	Primary Key	Agent ID, Auto Generated
username	int	10	Foreign key	Username of the account
firstName	varchar	20	Not Null	First Name of the Agent
lastName	varchar	20	Not Null	Last Name of the Agent
email	varchar	30	Not Null	Valid e-mail address for the Agent
phoneNumber	varchar	20	Not Null	Valid phone number for the Agent
address	varchar	50	Null	The address of the Agent