Data Dictionary

<u>Database Name:</u> quinnincDB

<u>List of Tables:</u>

1)	SystemAdministrator
2)	SystemAdministratorPhoneNumber
3)	SystemLoginPosition
4)	SystemLogin
5)	SystemLoginDateTime
6)	SystemLogoutDateTime
7)	Teller
8)	TellerShiftStartDateTime
9)	TellerShiftEndDateTime
10)	TellerPhoneNumber
11)	Customer
12)	CustomerEmailAddress
13)	CustomerPhoneNumber
14)	AccountStatus
15)	AcccountNormalSavings
16)	AcccountBonusSavings
17)	AcccountPremierSavings
	TransactionStatus
19)	TransactionDescription
20)	CustomerTransactionDeposit
21)	CustomerTransactionWithdrawal
	Manager
23)	ManagerPhoneNumber
24)	ModificationStatus

25) TellerManageCustomer
26) ManagerManageAccountNormalSavings
27) ManagerManageAccountBonusSavings
28) ManagerManageAccountPremierSavings
29) ManagerManageCustomerTransactionDeposit
30) ManagerManageCustomerTransactionWithdrawal
31) SystemAdministratorManageSystemLogin

1) **SystemAdministrator Table:**

Column Name	Data Type	Length	Constraints	Auto-Increment	Value
				(Starting Value)	(Example)
SARecordID	int	-	-	Yes-	5
				1	
AdminID	char(8)	8 characters	Primary Key	Yes –	SA000005
				SA000001	
Branch	varchar(30)	30 characters	Not Null	-	Liverpool
FirstName	varchar(20)	20 characters	Not Null	-	George
MiddleName	varchar(25)	25 characters	-	-	Noah
LastName	varchar(30)	30 characters	Not Null	-	Adam
LaneAddress	varchar(40)	40 characters	Not Null	-	Beach Lane
City	varchar(20)	20 characters	Not Null	-	Liverpool
EmailAddress	varchar(50)	50 characters	Check	-	sample@sam
					ple.com
slSystemLoginID	char(8)	8 characters	Foreign Key,	-	SL000005
			Not Null,		
			Check		
saAdminID_RegisteredBy	char(8)	8 characters	Foreign Key,	-	SA000008
			Not Null,		
			Check		
RegistrationDateTime	datetime	-	Default	-	2019-11-15
					08:13:58.707

Foreign Key Constraint Details

Key Name	Table	Column	Reference Table	Reference
				Column
FK_SA_AdminID	SystemAdministrator	saAdminID_Regist	SystemAdminist	AdminID
		eredBy	rator	
FK_SL_SystemLoginID	SystemAdministrator	slSystemLoginID	SystemLogin	SystemLoginID

Default Constraint Details

Constraint Name	Table	Column	Value
DFT_SA_RegistrationDateTime	SystemAdministrator	RegistrationDateTime	Current date and time

Constraint Name	Table	Column	Condition
CHK_SA_EmailAddress_@	SystemAdministrator	EmailAddress	(EmailAddress LIKE '%@%')
CHK_SA_AdminIDRegistered	SystemAdministrator	saAdminID_Regist	(LEN(saAdminID_RegisteredB
By_Length		eredBy	y) = 8)
CHK_SL_SystemLoginID_Len	SystemAdministrator	salSystemLoginID	(LEN(slSystemLoginID) = 8)
gth			

2) <u>SystemAdministratorPhoneNumber Table:</u>

Column Name	Data Type	Length	Constraints	Value (Example)
saAdminID	char(8)	8 characters	Foreign Key,	SA000002
			Composite Key,	
			Not Null,	
			Check	
PhoneNumber	char(10)	10 characters	Composite Key,	7215587145
			Not Null,	
			Check	

Foreign Key Details

Key Name	Table	Column	Reference	Reference Column
			Table	
FK_SA_AdminID	SystemAdministratorPhoneNumber	saAdminID	SystemAdmi	AdminID
			nistrator	

Constraint Name	Table	Column	Condition
CHK_SAPN_AdminID_Lengt	SystemAdministratorP	saAdminID	(LEN(saAdminID) = 8)
h	honeNumber		
CHK_SAPN_PhoneNumber_L	SystemAdministratorP	PhoneNumber	(LEN(PhoneNumber) = 10)
ength	honeNumber		

3) <u>SystemLoginPosition Table:</u>

Column Name	Data Type	Length	Constraints	Auto-Increment	Value
				(Starting Value)	(Example)
SLPRecordID	int	-	-	Yes -	5
				1	
PositionID	char(8)	8 characters	Primary Key	Yes –	PT000005
				PT000001	
Position	varchar(30)	30 characters	Not Null	-	Bank Teller

4) SystemLogin Table:

Column Name	Data Type	Length	Constraints	Auto-Increment	Value
				(Starting Value)	(Example)
SLRecordID	int	-	-	Yes-	5
				1	
SystemLoginID	char(8)	8 characters	Primary Key,	Yes –	SL000002
			Not Null	SL000001	
Username	varchar(30)	30 characters	UNIQUE,	-	-
			Not Null		
Password	varchar(50)	50 characters	UNIQUE,	-	-
			Not Null		
slpPositionID	char(8)	8 characters	Foreign Key,	-	SLP00005
			Not Null.		
			Check		
saAdminID_Cr	char(8)	8 characters	Foreign Key.	-	SD000007
eatedBy			Not Null,		
			Check		
CreationDateTi	datetime	-	Default	-	2019-11-15
me					08:13:58.707

Foreign Key Details

Key Name	Table	Column	Reference Table	Reference Column
FK_SL_PositionID	SystemLogin	slpPositionID	SystemLoginPosition	PositionID
FK_SL_AdminID	SystemLogin	saAdminID	SystemAdministrator	AdminID

Default Constraint Details

Constraint Name	Table	Column	Value
DFT_SL_CreationDateTime	SystemLogin	CreationDateTime	Current date and time

Constraint Name	Table	Column	Condition
CHK_SL_PositionID_Length	SystemLogin	slpPositionID	(LEN(slpPositionID) = 8)
CHK_SL_AdminID_Length	SystemLogin	saAdminID	(LEN(saAdminID) = 8)

5) <u>SystemLoginLoginDateTime Table:</u>

Column Name	Data Type	Length	Constraints	Value (Example)
slSystemLoginID	char(8)	8 characters	Foreign Key,	SL000004
			Composite Key,	
			Not Null,	
			Check	
LoginDateTime	datetime	-	Composite Key,	2019-11-15 08:13:58.707
			Not Null,	
			Default	

Foreign Key Details

Key Name	Table	Column	Reference	Reference
			Table	Column
FK_SLIDT_SystemLoginI	SystemLoginLoginDat	slSystemLoginID	SystemLogin	SystemLoginID
D	eTime			

Default Constraint Details

Constraint Name	Table	Column	Value
DFT_SLIDT_LoginDateTim	SystemLoginLoginDateTi	LoginDateTime	Current date and time
e	me		

Constraint Name	Table	Column	Condition
CHK_SLIDT_SystemLoginID	SystemLoginLoginDat	slSystemLoginID	(LEN(slSystemLoginID) = 8)
_Length	eTime		

6) <u>SystemLoginLogoutDateTime Table:</u>

Column Name	Data Type	Length	Constraints	Value (Example)
slSystemLoginID	char(8)	8 characers	Foreign Key,	SL000004
			Composite Key,	
			Not Null,	
			Check	
LogoutDateTime	datetime	-	Composite Key,	2019-11-15 08:13:58.707
			Not Null,	
			Default	

Foreign Key Details

Key Name	Table	Column	Reference	Reference
			Table	Column
FK_SLODT_SystemLogin	SystemLoginLogoutDat	slSystemLoginID	SystemLogin	SystemLoginID
ID	eTime			

Default Constraint Details

Constraint Name	Table	Column	Value
DFT_SLODT_LogoutDateTim	SystemLoginLogoutDat	LogoutDateTime	Current date and time
e	eTime		

Constraint Name	Table	Column	Condition
CHK_SLODT_SystemLogouID	SystemLoginLogoutDa	slSystemLoginID	(LEN(slSystemLoginID) = 8)
_Length	teTime		

7) Teller Table:

Column Name	Data Type	Length	Constraints	Auto-Increment	Value
				(Starting Value)	(Example)
TRecordID	int	-	-	Yes-	5
				1	
TellerID	char(8)	8 characters	Primary Key	Yes –	TE000004
				TE000001	
Branch	varchar(30)	30 characters	Not Null	-	London
FirstName	varchar(20)	20 characters	Not Null	-	Peter
MiddleName	varchar(25)	25 characters	-	-	Jack
LastName	varchar(30)	30 characters	Not Null	-	White
LaneAddress	varchar(40)	40 characters	Not Null	-	Beach Lane
City	varchar(20)	20 characters	Not Null	-	London
EmailAddress	varchar(50)	50 characters	Check		sample@sample.
					com
slSystemLoginID	char(8)	8 characters	Foreign Key,	-	SL000002
			Not Null,		
			Check		
saAdminID_RegisteredBy	char(8)	8 characters	Foreign Key,	-	SA000001
			Not Null,		
			Check		
RegistrationDateTime	datetime	-	Default	-	2019-11-15
					08:13:58.707

Foreign Key Details

Key Name	Table	Column	Reference Table	Reference Column
FK_T_SystemLoginID	Teller	slSystemLoginID	SystemLogin	SystemLoginID
FK_T_AdminID	Teller	saAdminID_Regist	SystemAdministr	AdminID
		eredBy	ator	

Default Constraint Details

Constraint Name	Table	Column	Value
DFT_T_RegirstrationDateTime	Teller	RegistrationDateTime	Current date and time

Constraint Name	Table	Column	Condition
CHK_T_EmailAddress_@	Teller	EmailAddress	(EmailAddress LIKE '% @ % ')
CHK_T_SystemLoginID_Length	Teller	slSystemLoginID	(LEN(slSystemLoginID) = 8)
CHK_T_AdminID_Length	Teller	saAdminID_Register	(LEN(saAdminID_RegisteredBy)
		edBy	= 8)

8) TellerShiftStartDateTime Table:

Column Name	Data Type	Length	Constraints	Value (Example)
tTellerID	char(8)	8 characters	Foreign Key,	TE0000004
			Composite Key,	
			Not Null,	
			Check	
ShiftStartDateTime	datetime	-	Composite Key,	2019-11-15
			Not Null,	08:13:58.707
			Default	

Foreign Key Details

Key Name	Table	Column	Reference Table	Reference Column
FK_TSSDT_TellerID	TellerShiftStartDateTime	tTellerID	Teller	TellerID

Default Constraint Details

Constraint Name	Table	Column	Value
DFT_TSSDT_ShidtStartDateTi	TellerShiftStartDateTime	ShiftStartDateTime	Current date and time
me			

Constraint Name	Table	Column	Condition
CHK_TSSDT_TellerID_Length	TellerShiftStartDateTime	tTellerID	(LEN(tTellerID) = 8)

9) <u>TellerShiftEndDateTime Table:</u>

Column Name	Data Type	Length	Constraints	Value
				(Example)
tTellerID	char(8)	8 characters	Foreign Key,	TE0000004
			Composite Key,	
			Not Null,	
			Check	
ShiftEndDateTime	datetime	-	Composite Key,	2019-11-15
			Not Null,	08:13:58.707
			Default	

Foreign Key Details

Key Name	Table	Column	Reference Table	Reference Column
FK_TSEDT_TellerID	TellerShiftEndDateTime	tTellerID	Teller	TellerID

Default Constraint Details

Constraint Name	Table	Column	Value
DFT_TSEDT_ShiftEndDateTime	TellerShiftEndDateTime	ShiftEndDateTime	Current date and time

Constraint Name	Table	Column	Condition
CHK_TSEDT_TellerID_Length	TellerShiftEndDateTime	tTellerID	(LEN(tTellerID) = 8)

10) <u>TellerPhoneNumber Table:</u>

Data Type	Length	Constraints	Value (Example)
char(8)	8 characters	Foreign Key,	TE0000004
		Composite Key,	
		Not Null,	
		Check	
char(10)	10 characters	Composite Key,	7215587145
		Not Null,	
		Check	
	char(8)	char(8) 8 characters	char(8) 8 characters Foreign Key, Composite Key, Not Null, Check char(10) 10 characters Composite Key, Not Null,

Foreign Key Details

Key Name	Table	Column	Reference Table	Reference Column
FK_TPN_PhoneNumber	TellerPhoneNumber	tTellerID	Teller	TellerID

Constraint Name	Table	Column	Condition
CHK_TPN_TellerID_Length	TellerPhoneNumber	tTellerID	(LEN(tTellerID) = 8)
CHK_TPN_PhoneNumber_Length	TellerPhoneNumber	PhoneNumber	(LEN(PhoneNumber) = 10)

11) <u>Customer Table:</u>

Column Name	Data Type	Length	Constraints	Value (Example)
PassportNumber	char(9)	9 characters	Primary key,	456434653
			Not Null,	
			Check	
FirstName	varchar(20)	20 characters	Not Null	George
MiddleName	varchar(25)	25 characters	-	Noah
LastName	varchar(30)	30 characters	Not Null	Adam
LaneAddress	varchar(40)	40 characters	Not Null	Beach Lane
City	varchar(20)	20 characters	Not Null	Liverpool
MonthlyIncomeRate	money	-	Not Null	8000.00
tTellerID_RegisteredBy	char(8)	8 characters	Foreign Key,	TE000002
			Not Null,	
			Check	
RegisteredDateTime	datetime	-	Default	2019-11-15
				08:13:58.707

Foreign Key Details

Key Name	Table	Column	Reference Table	Reference Column
FK_C_TellerID	Customer	tTellerID_CreatedBy	Customer	tTellerID_

<u>Default Constraint Details</u>

Constraint Name	Table	Column	Value
DFT_C_ RegisteredDateTime	Customer	RegisteredDateTime	Current date and time

Constraint Name	Table	Column	Condition
CHK_C_PassportNumber_Length	Customer	PassportNumber	(LEN(PassportNumber) = 9)
CHK_C_TellerID_Length	Customer	tTellerID_CreatedBy	(LEN(tTellerID_CreatedBy) = 8)

12) <u>CustomerEmailAddress Table:</u>

Column Name	Data Type	Length	Constraints	Value (Example)
cPassportNumber	char(9)	9 characters	Foreign Key, Composite Key, Not Null, Check	524698753
EmailAddress	varchar(50)	50 characters	Composite Key, Not Null, Check	sample@sample.com

Foreign Key Details

Key Name	Table	Column	Reference	Reference Column
			Table	
FK_CEM_PassportNumber	CustomerEmailAddress	cPassportNumber	Customer	PassportNumber

Constraint Name	Table	Column	Condition
CHK_CEM_PassportNumb	CustomerEmailAddress	cPassportNumber	(LEN(cPassportNumber) = 9)
er_Length			
CHK_CEM_EmailAddress_	CustomerEmailAddress	EmailAddress	(EmailAddress LIKE '%@%')
@			

13) <u>CustomerPhoneNumber Table:</u>

Column Name	Data Type	Length	Constraints	Value (Example)
cPassportNumber	char(9)	9 characters	Foreign Key,	524689875
			Composite Key,	
			Not Null,	
			Check	
PhoneNumber	char(10)	10 characters	Composite Key,	7215587145
			Not Null,	
			Check	

Foreign Key Details

Key Name	Table	Column	Reference Table	Reference Column
FK_CPN_PassportNumber	CustomerPhoneNum	cPassportNumber	Customer	PassportNumber
	ber			

Constraint Name	Table	Column	Condition
CHK_CPN_PassportNumber_Le	CustomerPhoneNumber	cPassportNumber	(LEN(cPassportNumber) = 9)
ngth			
CHK_CPN_PhoneNumber_Lengt	CustomerPhoneNumber	PhoneNumber	(LEN(PhoneNumber) = 10)
h			

14) <u>AccountStatus Table:</u>

Column Name	Data Type	Length	Constraints	Auto-Increment	Value
				(Starting Value)	(Example)
ASRecordID	char(8)	8 characters	-	Yes-	5
				1	
AccountStatusID	char(8)	8 characters	Primary Key	Yes-	AS000002
				AS000001	
AccountStatus	varchar(10)	10 characters	Not Null	-	Active

AccountNormalSavings Table:

Column Name	Data Type	Length	Constraints	Auto-Increment	Value
				(Starting Value)	(Example)
NSAccountNumber	int	-	Primary Key	Yes –	25000005
				25000001	
NSAccountBalance	money	-	Not Null	-	145.34
asAccountStatusID	char(8)	8 characters	Foreign Key,	-	AS000002
			Check,		
			Not Null		
cPassportNumber	char(8)	8 characters	Foreign Key,	-	465336534
			Not Null,		
			Check		
tTellerID_RegisteredBy	char(8)	8 characters	Foreign Key,	-	TE000003
			Check,		
			Not Null		
RegistrationDateTime	datetime	-	Default	-	2019-11-15
					08:13:58.707

Foreign Key Details

Key Name	Table	Column	Reference	Reference
			Table	Column
FK_ANS_AccountStatusID	AccountNormalSavings	asAccountStatusID	AccountStatus	AccountStatusID
FK_ANS_PassportNumber	AccountNormalSavings	cPassportNumber	Customer	PassportNumber
FK_ANS_TellerID	AccountNormalSavings	tTellerID_RegisteredBy	Teller	TellerID

Default Constraint Details

Constraint Name	Table	Column	Value
DFT_ANS_RegistrationDateTime	AccountNormalSavings	RegistrationDateTime	Current date and time

Constraint Name	Table	Column	Condition
CHK_A_AccountStatusID_Length	AccountNormal Savings	asAccountStatusID	(LEN(asAccountStatusID) = 8)
CHK_ANS_PassportNumber_Len	AccountNormal	cPassportNumber	(LEN(cPassportNumber) = 9)
gth	Savings		
CHK_ANS_TellerID_Length	AccountNormal	tTellerID_Registered	(LEN(tTellerID_RegisteredBy)
	Savings	Ву	= 8)

16) <u>AccountBonusSavings Table:</u>

Column Name	Data Type	Length	Constraints	Auto-Increment	Value
				(Starting Value)	(Example)
BSAccountNumber	int	-	Primary Key	Yes –	45000005
				45000001	
BSAccountBalance	money	-	Not Null	-	545.34
asAccountStatusID	char(8)	8 characters	Foreign Key,	-	AS000002
			Check,		
			Not Null		
cPassportNumber	char(8)	8 characters	Foreign Key,	-	465336544
			Not Null,		
			Check		
tTellerID_RegisteredBy	char(8)	8 characters	Foreign Key,	-	TE000003
			Check,		
			Not Null		
RegistrationDateTime	datetime	-	Default	-	2019-11-15
					08:13:58.707

Foreign Key Details

Key Name	Table	Column	Reference	Reference
			Table	Column
FK_ABS_AccountStatusID	AccountBonusSavings	asAccountStatusID	AccountStatus	AccountStatusID
FK_ABS_PassportNumber	AccountBonusSavings	cPassportNumber	Customer	PassportNumber
FK_ABS_TellerID	AccountBonusSavings	tTellerID_RegisteredBy	Teller	TellerID

Default Constraint Details

Constraint Name	Table	Column	Value
DFT_ABS_RegistrationDateTime	AccountBonusSavings	RegistrationDateTime	Current date and
			time

Constraint Name	Table	Column	Condition
CHK_ABS_AccountStatusID	AccountBon	asAccountStatusID	(LEN(asAccountStatusID) = 8)
	usSavings		
CHK_ABS_PassportNumber_Le	AccountBon	cPassportNumber	(LEN(cPassportNumber) = 9)
ngth	usSavings		
CHK_ABS_TellerID_Length	AccountBon	tTellerID_RegisteredBy	(LEN(tTellerID_RegisteredBy)
	usSavings		= 8)

17) <u>AccountPremierSavings Table:</u>

Column Name	Data Type	Length	Constraints	Auto-Increment	Value
				(Starting Value)	(Example)
PSAccountNumber	int	-	Primary Key	Yes –	75000005
				75000001	
PSAccountBalance	money	-	Not Null	-	1045.34
asAccountStatusID	char(8)	8 characters	Foreign Key,	-	AS000002
			Check,		
			Not Null		
cPassportNumber	char(8)	8 characters	Foreign Key,	-	465336534
			Not Null,		
			Check		
tTellerID_RegisteredBy	char(8)	8 characters	Foreign Key,	-	TE000003
			Check,		
			Not Null		
RegistrationDateTime	datetime	-	Default	-	2019-11-15
					08:13:58.707

Foreign Key Details

Key Name	Table	Column	Reference	Reference
			Table	Column
FK_APS_AccountStatusID	AccountPremierSavings	asAccountStatusID	AccountStatus	AccountStatusID
FK_APS_PassportNumber	AccountPremierSavings	cPassportNumber	Customer	PassportNumber
FK_APS_TellerID	AccountPremierSavings	tTellerID_RegisteredBy	Teller	TellerID

Default Constraint Details

Constraint Name	Table	Column	Value
DFT_APS_RegistrationDateTi	AccountPremierSavings	RegistrationDateTime	Current date and time
me			

Constraint Name	Table	Column	Condition
CHK_APS_AccountStatusID	AccountPre	asAccountStatusID	(LEN(asAccountStatusID) = 8)
	mierSavings		
CHK_APS_PassportNumber_L	AccountPre	cPassportNumber	(LEN(cPassportNumber) = 9)
ength	mierSavings		
CHK_APS_TellerID_Length	AccountPre	tTellerID_RegisteredBy	(LEN(tTellerID_RegisteredBy) =
	mierSavings		8)

18) <u>TransactionStatus Table:</u>

Column Name	Data Type	Length	Constraints	Auto-Increment	Value
				(Starting Value)	(Example)
TSRecordID	char(8)	8 characters	-	Yes-	5
				1	
TransactionStatusID	char(8)	8 characters	Primary Key	Yes-	TS000002
				TS000001	
TransactionStatus	varchar(50)	50 characters	Not Null	-	Updated
					Password

19) <u>TransactionDescriptionsTable:</u>

Column Name	Data Type	Length	Constraints	Auto-Increment	Value
				(Starting Value)	(Example)
TDRecordID	char(8)	8 characters	-	Yes-	5
				1	
TransactionDescripti	char(8)	8 characters	Primary Key	Yes-	TD000003
onID				TD000001	
TransactionDescripti	varchar(40)	40 characters	Not Null	-	INTEREST-
on					MONTHLY

20) <u>CustomerTransactionDeposit Table:</u>

Column Name	Data Type	Length	Constraints	Auto-Increment	Value
				(Starting Value)	(Example)
DTransactionNumber	int	-	Primary Key	Yes -	22000005
				22000001	
TransactionAmount	money	-	Check	-	250.25
TransactionDateTime	datetime	-	Default	-	2019-11-19
					12:12:34.323
tsTransactionStatusID	char(8)	8 characters	Foreign Key,	-	TS000002
			Not Null,		
			Check		
tdTransactionDescriptio	char(8)	8 characters	Foreign Key,	-	TD000004
nID			Not Null,		
			Check		
ansNSAccountNumber	int	-	Foreign Key	-	25000003
absBSAccountNumber	int	-	Foreign Key	-	45000002
apsPSAccountNumber	int	-	Foreign Key	-	75000004
tTellerID_ProcessedBy	char(8)	8 characters	Foreign Key,	-	TE000003
			Not Null,		
			Check		

Foreign Key Details

Key Name	Table	Column	Reference	Reference
			Table	Column
FK_CTD_TransactionStatusI	CustomerTransacti	tsTransactionStatusID	Transaction	TransactionStatu
D	onDeposit		Status	sID
FK_CTD_TransactionDescrip	CustomerTransacti	tdTransactionDescriptio	Transaction	TransactionDesc
tionID	onDeposit	nID	Description	riptionID
FK_CTD_NSAccountNumber	CustomerTransacti	ansNSAccountNumber	AccountNor	NSAccountNum
	onDeposit		malSavings	ber
FK_CTD_BSAccountNumber	CustomerTransacti	absNSAccountNumber	AccountNor	NSAccountNum
	onDeposit		malSavings	ber
FK_CTD_PSAccountNumber	CustomerTransacti	apsPSAccountNumber	AccountPre	PSAccountNum
	onDeposit		mierSavings	ber
FK_CTD_TellerID	CustomerTransacti	tTellerID_ProcessedBy	Teller	TellerID
	onDeposit			

<u>Default Constraint Details</u>

Constraint Name	Table	Column	Value
DFT_CTD_TransactionDateTime	CustomerTransactionDeposit	TransactionDateTi	Current date and time
		me	

Check Constraint Details

Constraint Name	Table	Column	Condition
CHK_CTD_TransactionSt	CustomerTrans	tsTransactionStatusID	(LEN(tsTransactionStatusID) = 8)
atusID_Length	actionDeposit		
CHK_CTD_TransactionDe	CustomerTrans	tdTransactionDescription	(LEN(tdTransactionDescriptionID)
scriptionID_Length	actionDeposit	ID	= 8)
CHK_CTD_TransactionA	CustomerTrans	TransactionAmount	(TransactionAmount > 0.00)
mount_Amount	actionDeposit		
CHK_CTD_NSAccountNu	CustomerTrans	ansNSAccountNumber,	((LEN)(ansNSAccountNumber) =
mber_BSAccountNumber_	actionDeposit	absBSAccountNumber,	8) OR
PSAccountNumber_Lengt		apsPSAccountNumber	(LEN(absBSAccountNumber) = 8)
h			OR (LEN(apsPSAccountNumber)
			= 8))
CHK_CTD_NSAccountNu	CustomerTrans	ansNSAccountNumber,	((ansNSAccountNumber = ' ') OR
mber_BSAccountNumber_	actionDeposit	absBSAccountNumber,	(absBSAccountNumber = ' ') OR
PSAccountNumber_NotNu		apsPSAccountNumber	(apsPSAccountNumber = ' '))
llVerification			
CHK_CTD_TellerID_Len	CustomerTrans	tTellerID_ProcessedBy	(LEN(tTellerID_ProcessedBy) = 8)
gth	actionDeposit		

Trigger Details

Trigger Name	Table	Affecting Table	Affecting Column	Description
TR_UpdateAccou	CustomerT	AccountNormalSavings,	NSAccountBalance,	After a deposit
ntBalanceAfterDe	ransaction	AccountBonusSaving,	BSAccountBalacne,	transaction record is
posit	Deposit	AccountPremierSavings	PSAccountBalance	inserted, the customer's
				account balance will be
				increased.

21) <u>CustomerTransactionWithdrawal Table:</u>

Column Name	Data Type	Length	Constraints	Auto-Increment (Starting Value)	Value (Example)
WTransactionNumber	int	-	Primary Key	Yes - 22000001	44000005
TransactionAmount	money	-	Check	-	250.25
TransactionDateTime	datetime	-	Default	-	2019-11-19 12:12:34.323
tsTransactionStatusID	char(8)	8 characters	Foreign Key, Not Null, Check	-	TS000001
tdTransactionDescriptionID	char(8)	8 characters	Foreign Key, Not Null, Check	-	TD000004
ansNSAccountNumber	int	-	Foreign Key	-	25000003
ansBSAccountNumber	int	-	Foreign Key	-	45000002
apsPSAccountNumber	int	-	Foreign Key	-	75000004
tTellerID_ProcessedBy	char(8)	8 characters	Foreign Key, Not Null	-	TE000003

Foreign Key Details

Table	Column	Reference	Reference
		Table	Column
CustomerTransacti	tsTrasnactionStatusI	TransactionSta	TransactionStatu
onWithdrawal	D	tus	sID
CustomerTransacti	tdTransactionDescrip	TransactionDe	TransactionDesc
onWithdrawal	tionID	scription	riptionID
CustomerTransacti	ansNSAccountNumb	AccountNorma	NSAccountNum
onWithdrawal	er	lSavings	ber
CustomerTransacti	absNSAccountNumb	AccountNorma	NSAccountNum
onWithdrawal	er	lSavings	ber
CustomerTransacti	apsPSAccountNumbe	AccountPremie	PSAccountNum
onWithdrawal	r	rSavings	ber
CustomerTransacti	tTellerID*	Teller	TellerID
onWithdrawal			
	CustomerTransacti onWithdrawal CustomerTransacti onWithdrawal CustomerTransacti onWithdrawal CustomerTransacti onWithdrawal CustomerTransacti onWithdrawal CustomerTransacti	CustomerTransacti tsTrasnactionStatusI onWithdrawal D CustomerTransacti tdTransactionDescrip onWithdrawal tionID CustomerTransacti ansNSAccountNumb er CustomerTransacti absNSAccountNumb onWithdrawal er CustomerTransacti apsPSAccountNumbe onWithdrawal r CustomerTransacti tTellerID*	CustomerTransacti tsTrasnactionStatusI TransactionStatusI onWithdrawal D tus CustomerTransacti tdTransactionDescrip TransactionDe scription CustomerTransacti ansNSAccountNumb AccountNorma onWithdrawal er ISavings CustomerTransacti absNSAccountNumb AccountNorma onWithdrawal er ISavings CustomerTransacti apsPSAccountNumbe AccountPremie onWithdrawal r rSavings CustomerTransacti tTellerID* Teller

<u>Default Constraint Details</u>

Constraint Name	Table	Column	Value
DFT_CTW_TransactionDateTime	CustomerTransactionWith	TransactionDateTime	Current date and time
	drawal		

Check Constraint Details

Constraint Name	Table	Column	Condition
CHK_CTW_Transaction	CustomerTrasacti	tsTransactionStatusID	(LEN(tsTransactionStatusID = 8))
StatusID_Length	onWithdrawal		
CHK_CTW_Transaction	CustomerTrasacti	tdTransactionDescription	(LEN(tdTransactionDescriptionID =
DescriptionID_Length	onWithdrawal	ID	8))
CHK_CTW_Transaction	CustomerTransact	TransactionAmount	(TransactionAmount > 0.00)
Amount_Amount	ionWithdrawal		
CHK_CTW_NSAccount	CustomerTrasacti	ansNSAccountNumber,	((LEN)(ansNSAccountNumber) =
Number_BSAccountNu	onWithdrawal	absBSAccountNumber,	8) OR
mber_PSAccountNumber		apsPSAccountNumber	(LEN(absBSAccountNumber) = 8)
_Length			OR (LEN(apsPSAccountNumber) =
			8))
CHK_CTW_NSAccount	CustomerTrasacti	ansNSAccountNumber,	((ansNSAccountNumber = ' ') OR
Number_BSAccountNu	onWithdrawal	absBSAccountNumber,	(absBSAccountNumber = ' ') OR
mber_PSAccountNumber		apsPSAccountNumber	(apsPSAccountNumber = ' '))
_NotNullVerification			
CHK_CTW_TellerID_Le	CustomerTrasacti	tTellerID_ProcessedBy	(LEN(tTellerID_ProcessedBy = 8))
ngth	onWithdrawal		

Trigger Details

Trigger Name	Table	Affecting Table	Affecting Column	Description
TR UpdateAcco	CustomerTrasac	AccountNormalSavings,	NSAccountBalance,	After a withdrawal
1			,	
untBalanceAfter	tionWithdrawal	AccountBonusSavings,	BSAccountBalacne,	transaction is inserted,
Withdrawal		AccountPremierSavings	PSAccountBalance	the customer's account
				balance will be
				deducted.

22) <u>Manager Table:</u>

Column Name	Data Type	Length	Constraints	Auto-Increment	Value
				(Starting Value)	(Example)
MRecordID	int	-	-	Yes-	5
				1	
ManagerID	char(8)	8 characters	Primary Key	Yes –	MA000002
				MA000001	
Branch	varchar(30)	30 characters	Not Null	-	Liverpool
FirstName	varchar(20)	20 characters	Not Null	-	George
MiddleName	varchar(25)	25 characters	-	-	Noah
LastName	varchar(30)	30 characters	Not Null	-	Adam
LaneAddress	varchar(40)	40 characters	Not Null	-	Beach Lane
City	varchar(20)	20 characters	Not Null	-	Liverpool
EmailAddress	varchar(50)	50 characters	Check	-	sample@sample
					.com
slSystemLoginID	char(8)	8 characters	Foreign Key,	-	SL000004
			Not Null,		
			Check		
saAdminID_RegisteredBy	char(8)	8 characters	Foreign Key,	-	SA000002
			Not Null,		
			Check		
RegistrationDateTime	datetime	-	Default	-	2019-11-15
					08:13:58.707

Foreign Key Details

Key Name	Table	Column	Reference Table	Reference Column
FK_M_SystemLoginID	Manager	slSystemLoginID	SystemLogin	SystemLoginID
FK_M_AdminID	Manager	saAdminID_RegisteredBy	SystemAdministrator	AdminID

Default Constraint Details

Constraint Name	Table	Column	Value
DFT_M_RegistrationDateTime	Manager	RegistrationDateTime	Current date and time

Constraint Name	Table	Column	Condition
CHK_M_EmailAddress_@	Manager	EmailAddress	(EmailAddress LIKE '% @%')
CHK_M_SystemLoginID_Length	Manager	slSystemLoginID	(LEN(slSystemLoginID) = 8)
CHK_M_AdminID_Length	Manager	saAdminID_RegisteredBy	(LEN(saAdminID_RegisteredBy)
			= 8)

23) <u>ManagerPhoneNumber Table:</u>

Column Name	Data Type	Length	Constraints	Value
				(Example)
mManagerID	char(8)	8 characters	Foreign Key,	MA000003
			Composite Key,	
			Not Null,	
			Check	
PhoneNumber	char(10)	10 characters	Composite Key,	7215584145
			Not Null,	
			Check	

Foreign Key Details

Key Name	Table	Column	Reference Table	Reference Column
FK_M_ManagerID	ManagerPhoneNumber	mManagerID	Manager	ManagerID

Constraint Name	Table	Column	Condition
CHK_M_ManagerID_Length	ManagerPhoneNumber	mManagerID	(LEN(mManagerID) = 8)
CHK_M_PhoneNumber_Leng	ManagerPhoneNumber	PhoneNumber	(LEN(PhoneNumber) = 10)
th			

24) <u>ModificationStatus Table:</u>

Column Name	Data Type	Length	Constraints	Auto-Increment	Value
				(Starting Value)	(Example)
ModificationStatusI	int	-	Primary Key	Yes-	5
D				1	
ModificationStatus	varchar(50)	50 characters		-	Revert
					Transaction

TellerManageCustomer Table:

Column Name	Data Type	Length	Constraints	Value
				(Example)
tTellerID_EditedBy	char(8)	8 characters	Composite Key,	TE000002
			Foreign Key,	
			Not Null,	
			Check	
cPassportNumber	char(9)	9 characters	Composite key,	456534653
			Foreign Key,	
			Not Null,	
			Check	
EditDateTime	datetime	-	Composite Key,	2019-11-15
			Default	08:13:58.707
msModificationStat	int	-	Foreign Key,	2
usID			Not Null	

Foreign Key Details

Key Name	Table	Column	Reference Table	Reference Column
FK_TMC_TellerID	TellerManageCustomer	tTellerID	Teller	TellerID
FK_TMC_PassportN umber	TellerManageCustomer	cPassportNum ber	Customer	PassportNumber
FK_TMC_Modificati onStatusID	TellerManageCustomer	msModificatio nStatusID	ModificationStatu s	msModificationStat usID

Default Constraint Details

Constraint Name	Table	Column	Value
DFT_TMC_EditDateTime	TellerManageCustomer	EditDateTime	Current date and time

Constraint Name	Table	Column	Condition
CHK_TMC_TellerID_Length	TellerManageCustomer	tTellerID	(LEN(tTellerID) = 8)
CHK_M_PassportNumber_Le	TellerManageCustomer	cPassportNumb	(LEN(cPassportNumber) = 9)
ngth		er	

26) <u>ManagerManageAccountNormalSavings Table:</u>

Column Name	Data Type	Length	Constraints	Value
				(Example)
mManagerID_Edite	char(8)	8 characters	Composite Key,	MA000002
dBy			Foreign Key,	
			Not Null,	
			Check	
ansNSAccountNum	int	-	Composite Key,	25000004
ber			Foreign Key,	
			Not Null,	
			Check	
EditDateTime	datetime	-	Composite Key,	2019-11-15
			Default	08:13:58.707
msModificationStat	int	-	Foreign Key,	2
usID			Not Null	

Key Name	Table	Column	Reference Table	Reference Column
FK_MMANS_Manag	ManagerManageAccount	mManagerID	Manager	ManagerID
erID	NormalSavings			
FK_MMANS_NSAc	ManagerManageAccount	ansNSAccoun	AccountNormalSa	NSAccountNumber
countNumber	NormalSavings	tNumber	vings	
FK_	ManagerManageAccount	msModificati	ModificationStatus	msModificationStat
MMANS_Modificati	NormalSavings	onStatusID		usID
onStatusID				

Constraint Name	Table	Column	Value
DFT_MMANS_EditDate	ManagerManageAccount	EditDateTime	Current date and time
Time	NormalSavings		

Constraint Name	Table	Column	Condition
CHK_MMANS_ManagerID_	ManagerManageAcc	mManagerID	(LEN(mManageID) = 8)
Length	ountNormalSavings		
CHK_MMANS_NSAccountN	ManagerManageAcc	ansNSAccountNu	(LEN(ansNSAccountNumber)
umber_Length	ountNormalSavings	mber	= 8)

27) <u>ManagerManageAccountBonusSavings Table:</u>

Column Name	Data Type	Length	Constraints	Value
				(Example)
mManagerID_Edite	char(8)	8 characters	Composite Key,	MA000002
dBy			Foreign Key,	
			Not Null,	
			Check	
absBSAccountNum	int	-	Composite Key,	45000005
ber			Foreign Key,	
			Not Null,	
			Check	
EditDateTime	datetime	-	Composite Key,	2019-11-15
			Default	08:13:58.707
msModificationStat	int	-	Foreign Key,	3
usID			Not Null	

Key Name	Table	Column	Reference Table	Reference Column
FK_MMABS_Manag	ManagerManageAccount	mManagerID	Manager	ManagerID
erID	BonusSavings			
FK_MMABS_BSAcc	ManagerManageAccount	absBSAccount	AccountBonusSa	BSAccountNumber
ountNumber	BonusSavings	Number	vings	
FK_MMABS_Modifi	ManagerManageAccount	msModificatio	ModificationStatu	msModificationStat
cationStatusID	BonusSavings	nStatusID	s	usID
FK_	ManagerManageAccount	msModificatio	ModificationStatu	msModificationStat
MMABS_Modificati	BonusSavings	nStatusID	S	usID
onStatusID				

Constraint Name	Table	Column	Value
DFT_MMABS_EditDate	ManagerManageAccount	EditDateTime	Current date and time
Time	BonusSavings		

Constraint Name	Table	Column	Condition
CHK_MMABS_ManagerID_L	ManagerManageAcc	mManagerID	(LEN(mManageID) = 8)
ength	ountBonusSavings		
CHK_MMABS_BSAccountN	ManagerManageAcc	absBSAccountNu	(LEN(absBSAccountNumber)
umber_Length	ountBonusSavings	mber	= 8)

28) <u>ManagerManageAccountPremierSavings Table:</u>

Column Name	Data Type	Length	Constraints	Value
				(Example)
mManagerID_Edite	char(8)	8 characters	Composite Key,	MA000002
dBy			Foreign Key,	
			Not Null,	
			Check	
absPSAccountNum	int	-	Composite Key,	75000005
ber			Foreign Key,	
			Not Null,	
			Check	
EditDateTime	datetime	-	Composite Key,	2019-11-15
			Default	08:13:58.707
msModificationStat	int	-	Foreign Key,	4
usID			Not Null	

Key Name	Table	Column	Reference Table	Reference Column
FK_MMAPS_Manag	ManagerManageAccount	mManagerID	Manager	ManagerID
erID	PremierSavings			
FK_MMAPS_BSAcc	ManagerManageAccount	absPSAccount	AccountPremierS	PSAccountNumber
ountNumber	PremierSavings	Number	avings	
FK_	ManagerManageAccount	msModificatio	ModificationStatu	msModificationStat
MMAPS_Modificatio	PremierSavings	nStatusID	s	usID
nStatusID				

Constraint Name	Table	Column	Value
DFT_MMAPS_EditDateT	ManagerManageAccount	EditDateTime	Current date and time
ime	PremierSavings		

Constraint Name	Table	Column	Condition
CHK_MMAPS_ManagerID_L	ManagerManageAcc	mManagerID	(LEN(mManageID) = 8)
ength	ountPremierSavings		
CHK_MMAPS_BSAccountNu	ManagerManageAcc	absPSAccountNu	(LEN(absPSAccountNumber) =
mber_Length	ountPremierSavings	mber	8)

29) <u>ManagerManageCustomerTransactionDeposit Table:</u>

Column Name	Data Type	Length	Constraints	Value
				(Example)
mManagerID_Edite	char(8)	8 characters	Composite Key,	MA000002
dBy			Foreign Key,	
			Not Null,	
			Check	
ctdDTransactionNu	int	-	Composite Key,	22000004
mber			Foreign Key,	
			Not Null,	
			Check	
EditDateTime	datetime	-	Composite Key,	2019-11-15
			Default	08:13:58.707
msModificationStat	int	-	Foreign Key,	4
usID			Not Null	

Key Name	Table	Column	Reference Table	Reference Column
FK_MMCTD_Manag	ManagerManageCustome	mManagerID	Manager	ManagerID
erID	rTransactionDeposit			
FK_MMCTD_DTran	ManagerManageCustome	ctdDTransactio	CustomerTransact	DTransactionNumb
sactionNumber	rTransactionDeposit	nNumber	ionDeposit	er
FK_	ManagerManageCustome	msModificatio	ModificationStatu	msModificationStat
MMCTD_Modificati	rTransactionDeposit	nStatusID	s	usID
onStatusID				

Constraint Name	Table	Column	Value
DFT_MMCTD_EditDate	ManagerManageCustome	EditDateTime	Current date and time
Time	rTransactionDeposit		

Constraint Name	Table	Column	Condition
CHK_MMCTD_ManagerID_	ManagerManageCus	mManagerID	(LEN(mManageID) = 8)
Length	tomerTransactionDe		
	posit		
CHK_MMCTD_DTransaction	ManagerManageCus	ctdDTransactionN	(LEN(ctdDTransactionNumber)
Number _Length	tomerTransactionDe	umber	= 8)
	posit		

30) <u>ManagerManageCustomerTransactionWithdrawal Table:</u>

Column Name	Data Type	Length	Constraints	Value
				(Example)
mManagerID_Edite	char(8)	8 characters	Composite Key,	MA000002
dBy			Foreign Key,	
			Not Null,	
			Check	
ctwWTransactionN	int	-	Composite Key,	44000006
umber			Foreign Key,	
			Not Null,	
			Check	
EditDateTime	datetime	-	Composite Key,	2019-11-15
			Default	08:13:58.707
msModificationStat	int	-	Foreign Key,	5
usID			Not Null	

Key Name	Table	Column	Reference Table	Reference Column
FK_MMCTW_Mana	ManagerManageCustome	mManagerID	Manager	ManagerID
gerID	rTransactionWithdrawal			
FK_MMCTW_WTra	ManagerManageCustome	ctwWTransacti	CustomerTransact	WTransactionNumb
nsactionNumber	rTransactionWithdrawal	onNumber	ionWithdrawal	er
FK_	ManagerManageCustome	msModificatio	ModificationStatu	msModificationStat
MMCTW_Modificati	rTransactionWithdrawal	nStatusID	s	usID
onStatusID				

Constraint Name	Table	Column	Value
DFT_MMCTW_EditDate	ManagerManageCustome	EditDateTime	Current date and time
Time	rTransactionWithdrawal		

Constraint Name	Table	Column	Condition
CHK_MMCTW_ManagerID_	ManagerManageCus	mManagerID	(LEN(mManageID) = 8)
Length	tomerTransactionWi		
	thdrawal		
CHK_MMCTW_WTransactio	ManagerManageCus	ctwWTransaction	(LEN(ctwWTransactionNumbe
nNumber _Length	tomerTransactionWi	Number	r) = 8)
	thdrawal		

31) <u>SystemAdministratorManageSystemLogin Table:</u>

Column Name	Data Type	Length	Constraints	Value
				(Example)
saAdminID_Edited	char(8)	8 characters	Composite Key,	SA000001
Ву			Foreign Key,	
			Not Null,	
			Check	
slSystemLoginID	char(8)	8 characters	Composite Key,	SL000004
			Foreign Key,	
			Not Null,	
			Check	
EditDateTime	datetime	-	Composite Key,	2019-11-15
			Default	08:13:58.707
msModificationStat	int	-	Foreign Key,	6
usID			Not Null	

Key Name	Table	Column	Reference Table	Reference Column
FK_SAMSL_AdminI	SystemAdministratorMa	saAdminID	Manager	AdminID
D	nageSystemLogin			
FK_SAMSL_System	SystemAdministratorMa	slSystemLogin	CustomerTransact	slSystemLoginID
LoginID	nageSystemLogin	ID	ionDeposit	
FK_	SystemAdministratorMa	msModificatio	ModificationStatu	msModificationStat
SAMSL_Modificatio	nageSystemLogin	nStatusID	s	usID
nStatusID				

Constraint Name	Table	Column	Value
DFT_SAMSL_EditDateTi	SystemAdministratorManageSyste	EditDateTime	Current date and time
me	mLogin		

Constraint Name	Table	Column	Condition
CHK_SAMSL_AdminID_Le	SystemAdministrator	saAdminID	(LEN(saAdminID) = 8)
ngt	ManageSystemLogin		
CHK_SAMSL_SystemLogin	SystemAdministrator	slSystemLoginID	(LEN(slSystemLoginID) = 8)
ID_Length	ManageSystemLogin		