Data Dictionary

<u>Database Name:</u> quinnincDB

<u>List of Tables:</u>

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7) Teller	
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10) TellerPhoneNumber	
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30) 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			

${\bf 2)} \ \ \underline{\bf System Administrator Phone Number\ Table:}$

Column Name	Data Type	Length	Constraints	Value (Example)
saAdminID	char(8)	8 characters	Foreign Key,	SA000002
			Composite Key,	
			Not Null,	
			Check	
PhoneNumber	char(11)	11 characters	Composite Key,	7215-587145
			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) = 11)
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

<u>Default Constraint Details</u>

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

<u>Default Constraint Details</u>

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(11)	11 characters	Composite Key,	7215-587145
		Not Null,	
		Check	
	char(8)	char(8) 8 characters	char(8) 8 characters Foreign Key, Composite Key, Not Null, Check char(11) 11 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) = 11)

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
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,	524698753
			Composite Key,	
			Not Null,	
			Check	
EmailAddress	varchar(50)	50 characters	Composite Key,	sample@sample.com
			Not Null,	
			Check	

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(11)	11 characters	Composite Key,	7215-587145
			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) = 11)
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	asAccountStatusID	(LEN(asAccountStatusID) = 8)
	Savings		
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>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		
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_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	

Constraint Name	Table	Column	Condition
CHK_CTD_TransactionStat	CustomerTra	tsTransactionStatusID	(LEN(tsTransactionStatusID) = 8)
usID_Length	nsactionDep		
	osit		

CHK_CTD_TransactionAmo	CustomerTra	TransactionAmount	(TransactionAmount > 0.00)
unt_Amount	nsactionDep		
	osit		
CHK_CTD_NSAccountNum	CustomerTra	ansNSAccountNumber,	((LEN)(ansNSAccountNumber) =
ber_BSAccountNumber_PS	nsactionDep	absBSAccountNumber,	8) OR
AccountNumber_Length	osit	apsPSAccountNumber	(LEN(absBSAccountNumber) = 8)
			OR (LEN(apsPSAccountNumber)
			= 8))
CHK_CTD_NSAccountNum	CustomerTra	ansNSAccountNumber,	((ansNSAccountNumber = ' ') OR
ber_BSAccountNumber_PS	nsactionDep	absBSAccountNumber,	(absBSAccountNumber = ' ') OR
AccountNumber_NotNullVe	osit	apsPSAccountNumber	(apsPSAccountNumber = ' '))
rification			
CHK_CTD_TellerID_Lengt	CustomerTra	tTellerID_ProcessedBy	(LEN(tTellerID_ProcessedBy) = 8)
h	nsactionDep		
	osit		

Trigger Details

Trigger Name	Table	Affecting Table	Affecting	Description
			Column	
TR_UpdateAccountBal	CustomerTrans	AccountNormalSavings,	NSAccountBa	After a deposit
anceAfterDeposit	actionDeposit	AccountBonusSavings,	lance,	transaction record is
		AccountPremierSavings	BSAccountBa	inserted, the customer's
			lacne,	account balance will be
			PSAccountBa	increased.
			lance	

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

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

Foreign Key Details

Key Name	Table	Column	Reference	Reference
			Table	Column
FK_CTD_TransactionStatusI	CustomerTransacti	tsTrasnactionStatusI	TransactionSta	TransactionStatu
D	onWithdrawal	D	tus	sID
FK_CTD_NSAccountNumber	CustomerTransacti	ansNSAccountNumb	AccountNorma	NSAccountNum
	onWithdrawal	er	lSavings	ber
FK_CTD_BSAccountNumber	CustomerTransacti	absNSAccountNumb	AccountNorma	NSAccountNum
	onWithdrawal	er	lSavings	ber
FK_CTW_PSAccountNumbe	CustomerTransacti	apsPSAccountNumbe	AccountPremie	PSAccountNum
r	onWithdrawal	r	rSavings	ber
FK_CTW_TellerID	CustomerTransacti	tTellerID*	Teller	TellerID
	onWithdrawal			

Default Constraint Details

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	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
untBalanceAfter	tionWithdrawal	AccountBonusSavings,	BSAccountBalacne,	transaction is inserted,
Withdrawal		AccountPremierSavings	PSAccountBalance	the customer's account
				balance will be
				deducted.

21) <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

<u>Default Constraint Details</u>

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)

22) <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(11)	11 characters	Composite Key,	7215-584145
			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) = 11)
th			

23) <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	TellerManageCustomer	cPassportNum	Customer	PassportNumber
umber		ber		
FK_TMC_Modificati	TellerManageCustomer	msModificatio	ModificationStatu	msModificationStat
onStatusID		nStatusID	s	usID

<u>Default Constraint Details</u>

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	

25) <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)

26) <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)

27) <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)

28) <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		

29) <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		

30) <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		