



# CARDWORKS

# DATA WAREHOUSE

Version 1.0

Prepared By



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**1.0 FILE SPECIFICATION FOR DW FILES (APPROACH 1)**

Refer to ‘Data Warehousing File Specification’ section of CARDWORKS™ General System Interface Specification, by eProtea.

**2.0 DATA DEFINITION LANGUAGE (DDL) FOR DW STAGING DATABASE (APPROACH 2)****2.1 DW001 – Card Application Information That Input/Updated By User**

Table Name	DW001		
Table Description	To store all the card application information that input/updated by user		
Primary Key	P9_DW001_FI, P9_DW001_PRO_NO		
Index	Index 1 : FX_DW001_OLD_IC Index 2: FX_DW001_NEW_ID, FX_DW001_NEW_ID_IND Index 3 : FX_DW001_NAME, P9_DW001_PRO_NO Index 4 : P9_DW001_FI, F9_DW001_APPL_NO,FX_DW001_CRD_TYP Index 5 : P9_DW001_FI, P9_DW001_PRO_NO, FX_DW001_CRD_TYP		
Column Name	Column Type	Mandatory	Column Description
F9_DW001_UPD_TMS	NUMBER(17)	✓	The date and time when the record is updated by data warehouse program
P9_DW001_FI	NUMBER(6)	✓	The unique identification of the bank
P9_DW001_PRO_NO	NUMBER(8)	✓	The unique processing number generated by system when the application is inserted into system

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	Index 3 : FX_DW001_NAME, P9_DW001_PRO_NO		
	Index 4 : P9_DW001_FI, F9_DW001_APPL_NO,FX_DW001_CRD_TYP		
	Index 5 : P9_DW001_FI, P9_DW001_PRO_NO, FX_DW001_CRD_TYP		
Column Name	Column Type	Mandatory	Column Description
F9_DW001_APPL_RCV_DT	NUMBER(8)	✓	The date when the application is received and input into the system
F9_DW001_APPL_NO	NUMBER(7)	✓	The application number and the value always defaulted to the processing number if the application is entered from the CW screen. If the application is uploaded by external system, then this number must be provided by the external system
FX_DW001_CIF_NO	CHAR(19)	✓	The application's unique customer ID assigned by the customer repository system (core banking)
FX_DW001_TTL	CHAR(10)	✓	The title of the applicant (Mr/Miss/Mrs)
FX_DW001_NAME	CHAR(120)	✓	The name of the applicant
FX_DW001_EMB_NAME	CHAR(22)	✓	The name to be embossed on the plastic card
FX_DW001_NEW_ID_IND	CHAR(4)	✓	The flag to indicate the type of the ID number

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Column Name	Column Type	Mandatory	Column Description
			'N' – New IC 'P' – Passport 'M' – Military 'F' – Police 'O' - Others
FX_DW001_NEW_ID	CHAR(40)	✓	The new ID card number of the applicant
FX_DW001_OLD_IC	CHAR(15)	✓	The old ID card number of the applicant
F9_DW001_DOB	NUMBER(8)	✓	The date of birth of the applicant
FX_DW001_GENDR	CHAR(1)	✓	The gender of the applicant F – Female

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	Index 3 : FX_DW001_NAME, P9_DW001_PRO_NO		
	Index 4 : P9_DW001_FI, F9_DW001_APPL_NO,FX_DW001_CRD_TYP		
	Index 5 : P9_DW001_FI, P9_DW001_PRO_NO, FX_DW001_CRD_TYP		
Column Name	Column Type	Mandatory	Column Description
			M - Male
FX_DW001_NATL	CHAR(3)	✓	The nationality of the applicant
FX_DW001_RACE	CHAR(1)	✓	The race of the applicant
FX_DW001_MARR_STAT	CHAR(1)	✓	The marital status of the applicant  'S' - Single 'M' – Married 'D' - Divorced 'O' – Others
FX_DW001_BIL_ADDR_1	CHAR(40)		The billing address of the applicant (Line 1)
FX_DW001_BIL_ADDR_2	CHAR(40)		The billing address of the applicant (Line 2)
FX_DW001_BIL_ADDR_3	CHAR(40)		The billing address of the applicant (Line 3)

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	Index 3 : FX_DW001_NAME, P9_DW001_PRO_NO		
	Index 4 : P9_DW001_FI, F9_DW001_APPL_NO,FX_DW001_CRD_TYP		
	Index 5 : P9_DW001_FI, P9_DW001_PRO_NO, FX_DW001_CRD_TYP		
Column Name	Column Type	Mandatory	Column Description
FX_DW001_BIL_ADDR_4	CHAR(40)		The billing address of the applicant (Line 4)
FX_DW001_BIL_ST_CDE	CHAR(40)		The state code of the applicant's billing address
FX_DW001_BIL_ZIP	CHAR(10)		The zip code of the applicant's billing address
FX_DW001_BIL_TOWN	CHAR(35)		The town of the applicant's billing address
FX_DW001_BIL_CNTRY	CHAR(3)		The country of the applicant's billing address
FX_DW001_BIL_TEL	CHAR(40)		The telephone number the applicant's billing address
FX_DW001_HME_ADDR_1	CHAR(40)	✓	The resident address of the applicant (Line 1)
FX_DW001_HME_ADDR_2	CHAR(40)	✓	The resident address of the applicant (Line 2)
FX_DW001_HME_ADDR_3	CHAR(40)	✓	The resident address of the applicant (Line 3)
FX_DW001_HME_ADDR_4	CHAR(40)	✓	The resident address of the applicant (Line 4)

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	Index 4 : P9_DW001_FI, F9_DW001_APPL_NO,FX_DW001_CRD_TYP		
	Index 5 : P9_DW001_FI, P9_DW001_PRO_NO, FX_DW001_CRD_TYP		
Column Name	Column Type	Mandatory	Column Description
FX_DW001_HME_ST_CDE	CHAR(40)	✓	The state code of the applicant's resident address
FX_DW001_HME_ZIP	CHAR(10)	✓	The zip code of the applicant's resident address
FX_DW001_HME_TOWN	CHAR(35)	✓	The town of the applicant's resident address
FX_DW001_HME_CNTRY	CHAR(3)	✓	The country of the applicant's resident address
FX_DW001_HME_TEL	CHAR(40)	✓	The telephone number the applicant's resident address
FX_DW001_OWN_PROP_FLG	CHAR(5)	✓	The residence type of the applicant "M" – Mortgage "P" – Own Property "R" – Rented Property "V" - Relative "O" - Others



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Column Name	Column Type	Mandatory	Column Description
FX_DW001_OFF_NAME	CHAR(50)	Only mandatory for Credit Card	The company name that the applicant work with
FX_DW001_OFF_DEPT	CHAR(30)		The name of the department that the applicant work with
FX_DW001_OFF_ADDR_1	CHAR(40)		The company address (Line 1)
FX_DW001_OFF_ADDR_2	CHAR(40)		The company address (Line 2)
FX_DW001_OFF_ADDR_3	CHAR(40)		The company address (Line 3)
FX_DW001_OFF_ADDR_4	CHAR(40)		The company address (Line 4)
FX_DW001_OFF_ST_CDE	CHAR(40)		The state code of the company address
FX_DW001_OFF_ZIP	CHAR(10)		The zip code of the company address
FX_DW001_OFF_TOWN	CHAR(35)		The town of the company address
FX_DW001_OFF_CNTRY	CHAR(3)		The country of the company address

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Column Name	Column Type	Mandatory	Column Description
FX_DW001_OFF_TEL_1	CHAR(40)		The primary telephone number of the company
FX_DW001_OFF_TEL_EXT_1	CHAR(6)		The extension of the primary telephone number of the company
FX_DW001_OFF_TEL_2	CHAR(40)		The primary telephone number of the company
FX_DW001_OFF_TEL_EXT_2	CHAR(6)		The extension of the primary telephone number of the company
FX_DW001_OFF_FAX	CHAR(15)		The fax number of the company
FX_DW001_POS_HELD	CHAR(4)		The position hold by the applicant in the company
FX_DW001_PROFSN	CHAR(1)		The work nature of the applicant “E” – Employed “S” – Self Employed “U” - Unemployed

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	Index 5 : P9_DW001_FI, P9_DW001_PRO_NO, FX_DW001_CRD_TYP		
Column Name	Column Type	Mandatory	Column Description
F9_DW001_EMP_YR	NUMBER(6)		Indicate when the applicant join the company and the format is YYYYMM
FX_DW001_PREV_EMP_NAME	CHAR(50)		The previous company name
FX_DW001_PREV_EMP_ADDR_1	CHAR(40)		The previous company's address (Line 1)
FX_DW001_PREV_EMP_ADDR_2	CHAR(40)		The previous company's address (Line 2)
FX_DW001_PREV_EMP_ADDR_3	CHAR(40)		The previous company's address (Line 3)
FX_DW001_PREV_EMP_ADDR_4	CHAR(40)		The previous company's address (Line 4)
FX_DW001_PREV_EMP_ST_CDE	CHAR(40)		The state code of the previous company's address
FX_DW001_PREV_EMP_ZIP	CHAR(10)		The zip code of the previous company's address
FX_DW001_PREV_EMP_TOWN	CHAR(35)		The town of the previous company's address

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	Index 5 : P9_DW001_FI, P9_DW001_PRO_NO, FX_DW001_CRD_TYP		
Column Name	Column Type	Mandatory	Column Description
FX_DW001_PREV_EMP_CNTRY	CHAR(3)		The country of the previous company's address
FX_DW001_PREV_EMP_TEL	CHAR(40)		The telephone number of the previous company
FX_DW001_PREV_EMP_TEL_EXT	CHAR(6)		The telephone extension number of the previous company
F9_DW001_PREV_EMP_YR	NUMBER(6)		Indicate when the applicant join the previous company and the format is YYYYMM
FX_DW001_MID	CHAR(15)		Merchant ID of the application originated from if the source application if via acquired merchant
FX_DW001_SLS_OFC_CDE	CHAR(5)	✓	The ID of the sales man who bring in the customer
FX_DW001_ORG_BRCH_CDE	CHAR(5)	✓	The branch code of the bank which capture the new application record

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	Index 5 : P9_DW001_FI, P9_DW001_PRO_NO, FX_DW001_CRD_TYP		
Column Name	Column Type	Mandatory	Column Description
FX_DW001_REVW_CDE	CHAR(2)	✓	The customer category of the applicant
F9_DW001_ANN_INCM	NUMBER(18)	✓	The annual income of the applicant
FX_DW001_EMAIL_ADDR	CHAR(100)	✓	The email address of the applicant
FX_DW001_HP	CHAR(22)	✓	The hand phone number of the applicant
FX_DW001_EMER_CONTC_PERS	CHAR(120)	Only mandatory for Credit Card	The emergency contact person
FX_DW001_EMER_TEL	CHAR(40)		The emergency contact number
FX_DW001_EMER_HP	CHAR(22)		The emergency hand phone contact number
FX_DW001_EMER_RELT	CHAR(1)		The relationship of the emergency contact person and the applicant
FX_DW001_RELT2PRIN	CHAR(1)	✓	The relationship of the supplementary card applicant with the principal cardholder. This is applicable to supplementary card

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	Index 4 : P9_DW001_FI, F9_DW001_APPL_NO,FX_DW001_CRD_TYP		
	Index 5 : P9_DW001_FI, P9_DW001_PRO_NO, FX_DW001_CRD_TYP		
Column Name	Column Type	Mandatory	Column Description
			applicant
FX_DW001_SP_EMP_NAME	CHAR(50)		The company name of the spouse
FX_DW001_SP_EMP_ADDR_1	CHAR(40)		The company address of the spouse (Line 1)
FX_DW001_SP_EMP_ADDR_2	CHAR(40)		The company address of the spouse (Line 2)
FX_DW001_SP_EMP_ADDR_3	CHAR(40)		The company address of the spouse (Line 3)
FX_DW001_SP_EMP_ADDR_4	CHAR(40)		The company address of the spouse (Line 4)
FX_DW001_SP_EMP_ZIP	CHAR(10)		The zip code of the spouse's company address
FX_DW001_SP_EMP_TOWN	CHAR(35)		The town of the spouse's company address
FX_DW001_SP_EMP_CNTRY	CHAR(3)		The country of the spouse's company address
FX_DW001_SP_EMP_TEL	CHAR(40)		The telephone number of the spouse's company

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	Index 4 : P9_DW001_FI, F9_DW001_APPL_NO,FX_DW001_CRD_TYP		
	Index 5 : P9_DW001_FI, P9_DW001_PRO_NO, FX_DW001_CRD_TYP		
Column Name	Column Type	Mandatory	Column Description
FX_DW001_SP_EMP_TEL_EXT	CHAR(6)		The telephone extension number of the spouse's company
FX_DW001_SP_EMP_POS	CHAR(40)		The position hold by the spouse
F9_DW001_SP_EMP_YR	NUMBER(6)		Indicate when the spouse start work for the company and the format is YYYYMM
F9_DW001_NEW_ID_ISS_DT	NUMBER(8)	✓	The issue date of the applicant's ID card
FX_DW001_NEW_ID_ISS_LOC	VARCHAR2(150)	✓	The place where the applicant's ID card is being issued
FX_DW001_DELIV_OFF_NAME	CHAR(50)		The company name where the card should deliver (Only applicable if applicant prefer to deliver card to company)
FX_DW001_DELIV_OFF_DEPT	CHAR(30)		The department name where the card should deliver (Only applicable if applicant prefer to deliver card to company)
FX_DW001_DELIV_ADDR_1	CHAR(40)		The card delivery address (Line 1)

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	Index 3 : FX_DW001_NAME, P9_DW001_PRO_NO		
	Index 4 : P9_DW001_FI, F9_DW001_APPL_NO,FX_DW001_CRD_TYP		
	Index 5 : P9_DW001_FI, P9_DW001_PRO_NO, FX_DW001_CRD_TYP		
Column Name	Column Type	Mandatory	Column Description
FX_DW001_DELIV_ADDR_2	CHAR(40)		The card delivery address (Line 2)
FX_DW001_DELIV_ADDR_3	CHAR(40)		The card delivery address (Line 3)
FX_DW001_DELIV_ADDR_4	CHAR(40)		The card delivery address (Line 4)
FX_DW001_DELIV_ZIP	CHAR(10)		The zip code of the card delivery address
FX_DW001_DELIV_TOWN	CHAR(35)		The town of the card delivery address
FX_DW001_DELIV_CNTRY	CHAR(3)		The country of the card delivery address
F9_DW001_DELIV_EXPI_DT	NUMBER(8)		The card delivery expiry date
FX_DW001_RECOMDR_NAME	CHAR(120)		The name of the recommender
FX_DW001_RECOMDR_PAN	CHAR(19)		The card number of the recommender
FX_DW001_PR_FLG	CHAR(1)	✓	To indicate the applicant whether is permanent or temporary resident



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Column Name	Column Type	Mandatory	Column Description
			“Y” – Permanent Resident “N” – Temporary Resident
FX_DW001_EXST_CUST_FLG	CHAR(1)	✓	The flag to indicate the applicant is the bank existing customer
FX_DW001_EDU_LEV	CHAR(4)	✓	The highest education level of the applicant “01” – Primary School “02” – Secondary School “03” – Diploma “04” – Post Graduate “05” – Degree “06” – Master “07” – Others
F9_DW001_LOC_LMT	NUMBER(10)	Only	The credit limit allocated for the account

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Column Name	Column Type	Mandatory	Column Description
		mandatory for Credit Card	
FX_DW001_MUM_NAME	CHAR(120)	✓	The mother name of the applicant
PX_DW001_CRD_PGM	CHAR(6)	✓	The card type/program applied by the applicant
PX_DW001_CRD_BRN	CHAR(2)	✓	The card brand applied by the applicant “LC” – Local card “VS” – Visa card “MC” - MasterCard
F9_DW001_SEQ_PRO_NO	NUMBER(3)		The unique sequence no generated for a application where multiple cards are apply in one application

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Column Name	Column Type	Column Description
FX_DW001_CRD_PRD	CHAR(1)	The card product applied by the applicant "C" – Classic card "G" – Gold card "P" – Platinum card
FX_DW001_CRD_TYP	CHAR(1)	Indicate the card is principal or supplementary card B – Principal/Basic card S – Supplementary card
F9_DW001_DECSN_DT	NUMBER(8)	The date when the card application is approved/cancel/declined
FX_DW001_DECSN_STAT	CHAR(2)	The status of the card application

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Column Name	Column Type	Mandatory	Column Description
			“A” – Approved “C” – Cancelled “D” - Declined
FX_DW001_OW_N_PAN	CHAR(19)		The applicant's own card number. Only generated when the card application is approved
FX_DW001_PRIN_PAN	CHAR(19)		The principal card number and this only applicable to supplementary card application
FX_DW001_DCLN_REAS_CDE	CHAR(2)		The code to indicate the decline reason selected by user
FX_DW001_FEE_CDE	CHAR(4)	✓	The fee program that offer different card management fee such as issuing, renewal fee and etc. Different card program can have different fee program

Table Name	DW001		
Table Description	To store all the card application information that input/updated by user		
Primary Key	P9_DW001_FI, P9_DW001_PRO_NO		
Index	Index 1 : FX_DW001_OLD_IC		
	Index 2: FX_DW001_NEW_ID, FX_DW001_NEW_ID_IND		
	Index 3 : FX_DW001_NAME, P9_DW001_PRO_NO		
	Index 4 : P9_DW001_FI, F9_DW001_APPL_NO,FX_DW001_CRD_TYP		
	Index 5 : P9_DW001_FI, P9_DW001_PRO_NO, FX_DW001_CRD_TYP		
Column Name	Column Type	Mandatory	Column Description
FX_DW001_SRC_CDE	CHAR(5)	✓	The code to indicate the source of the application
FX_DW001_CAMPGN_CDE	CHAR(9)	✓	The code to indicate the campaign program offer to the applicant
FX_DW001_JOINT_ACCT_IND	CHAR(1)	✓	To indicate the card is sharing the same account with other cards “Y” - Joint Account “N” – Not Joint Account
F9_DW001_LOC_ACCT	NUMBER(12)	✓	The account number of the card
F9_DW001_INIT_TOP_AMT	NUMBER(18,2)		The initial top-up amount and only applicable to prepaid card
FX_DW001_ONLINE_IND	CHAR(1)	✓	To indicate to system whether shall generate Web PIN for cardholder “Y” – Web PIN required “N” – Web Pin not required

Table Name	DW001		
Table Description	To store all the card application information that input/updated by user		
Primary Key	P9_DW001_FI, P9_DW001_PRO_NO		
Index	Index 1 : FX_DW001_OLD_IC Index 2: FX_DW001_NEW_ID, FX_DW001_NEW_ID_IND Index 3 : FX_DW001_NAME, P9_DW001_PRO_NO Index 4 : P9_DW001_FI, F9_DW001_APPL_NO,FX_DW001_CRD_TYP Index 5 : P9_DW001_FI, P9_DW001_PRO_NO, FX_DW001_CRD_TYP		
Column Name	Column Type	Mandatory	Column Description
FX_DW001_PMT_RCV_IND	CHAR(1)		To indicate whether the cheque payment is received from cardholder
F9_DW001_XFER_DT	NUMBER(12)		The date when the application is transfer to card profile
FX_DW001_AUTO_DB_OPT	CHAR(1)	✓	To indicate the auto-debit option “0” – Not Auto-Debit “1” – Pay Fixed Amount “2” – Pay Minimum Repayment Amount “3” – Pay Total Billed Amount
FX_DW001_CASA	CHAR(40)		The Saving/Current account no to be used to pay the credit card bill
F9_DW001_FIX_DB_AMT	NUMBER(18)		The fixed amount to be debited for the credit card payment

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Table Name	DW001		
Table Description	To store all the card application information that input/updated by user		
Primary Key	P9_DW001_FI, P9_DW001_PRO_NO		
Index	Index 1 : FX_DW001_OLD_IC		
	Index 2: FX_DW001_NEW_ID, FX_DW001_NEW_ID_IND		
	Index 3 : FX_DW001_NAME, P9_DW001_PRO_NO		
	Index 4 : P9_DW001_FI, F9_DW001_APPL_NO,FX_DW001_CRD_TYP		
	Index 5 : P9_DW001_FI, P9_DW001_PRO_NO, FX_DW001_CRD_TYP		
Column Name	Column Type	Mandatory	Column Description
FX_DW001_LOC_LMT_CALC_TYP	CHAR(1)		The calculation type for line of credit limit

## 2.2 DW002 – Cardholder Profiles That Input/Updated By User

Table Name	DW002		
Table Description	To store all the cardholder profiles that input/updated by user		
Primary Key	P9_DW002_FI, P9_DW002_CRN		
Index	Index 1 : FX_DW002_NEW_ID, FX_DW002_NEW_ID_IND		
	Index 2 : P9_DW002_FI, FX_DW002_NATL, FX_DW002_NEW_ID, FX_DW002_NEW_ID_IND		
	Index 3 : FX_DW002_NAME		
	Index 4 : P9_DW002_FI, FX_DW002_REVW_CDE		
	Index 5: P9_DW002_FI, FX_DW002_NAME, P9_DW002_CRN		
	Index 6 : P9_DW002_FI, FX_DW002_CIF_NO		
Column Name	Column Type	Mandatory	Column Description
F9_DW002_UPD_TMS	NUMBER(17)	✓	The date and time when the record is updated by data warehouse program
P9_DW002_FI	NUMBER(6)	✓	The unique identification of the bank
P9_DW002_CRN	NUMBER(9)	✓	The unique customer relationship number generated by the system when the card profile is created
FX_DW002_TTL	CHAR(10)	✓	The title of the cardholder (Mr/Miss/Mrs)
FX_DW002_NAME	CHAR(120)	✓	The name of the cardholder
FX_DW002_NEW_ID_IND	CHAR(4)	✓	The flag to indicate the type of the ID number



Table Name	DW002		
Table Description	To store all the cardholder profiles that input/updated by user		
Primary Key	P9_DW002_FI, P9_DW002_CRN		
Index	Index 1 : FX_DW002_NEW_ID, FX_DW002_NEW_ID_IND		
	Index 2 : P9_DW002_FI, FX_DW002_NATL, FX_DW002_NEW_ID, FX_DW002_NEW_ID_IND		
	Index 3 : FX_DW002_NAME		
	Index 4 : P9_DW002_FI, FX_DW002_REVW_CDE		
	Index 5: P9_DW002_FI, FX_DW002_NAME, P9_DW002_CRN		
	Index 6 : P9_DW002_FI, FX_DW002_CIF_NO		
Column Name	Column Type	Mandatory	Column Description
			'N' – New IC
			'P' – Passport
			'M' – Military
			'F' – Police
			'O' - Others
FX_DW002_NEW_ID	CHAR(40)	✓	The new ID card number of the cardholder
FX_DW002_OLD_IC	CHAR(15)	✓	The old ID card number of the cardholder
F9_DW002_DOB	NUMBER(8)	✓	The date of birth of the cardholder
FX_DW002_GENDR	CHAR(1)	✓	The gender of the cardholder

Table Name	DW002		
Table Description	To store all the cardholder profiles that input/updated by user		
Primary Key	P9_DW002_FI, P9_DW002_CRN		
Index	Index 1 : FX_DW002_NEW_ID, FX_DW002_NEW_ID_IND		
	Index 2 : P9_DW002_FI, FX_DW002_NATL, FX_DW002_NEW_ID, FX_DW002_NEW_ID_IND		
	Index 3 : FX_DW002_NAME		
	Index 4 : P9_DW002_FI, FX_DW002_REVW_CDE		
	Index 5: P9_DW002_FI, FX_DW002_NAME, P9_DW002_CRN		
	Index 6 : P9_DW002_FI, FX_DW002_CIF_NO		
Column Name	Column Type	Mandatory	Column Description
			F – Female M - Male
FX_DW002_NATL	CHAR(3)	✓	The nationality of the cardholder
FX_DW002_RACE	CHAR(1)	✓	The race of the cardholder
FX_DW002_MARR_STAT	CHAR(1)	✓	The marital status of the cardholder 'S' - Single 'M' – Married 'D' - Divorced 'O' – Others
FX_DW002_HME_ADDR_1	CHAR(40)	✓	The resident address of the cardholder (Line 1)

Table Name	DW002		
Table Description	To store all the cardholder profiles that input/updated by user		
Primary Key	P9_DW002_FI, P9_DW002_CRN		
Index	Index 1 : FX_DW002_NEW_ID, FX_DW002_NEW_ID_IND		
	Index 2 : P9_DW002_FI, FX_DW002_NATL, FX_DW002_NEW_ID, FX_DW002_NEW_ID_IND		
	Index 3 : FX_DW002_NAME		
	Index 4 : P9_DW002_FI, FX_DW002_REVW_CDE		
	Index 5: P9_DW002_FI, FX_DW002_NAME, P9_DW002_CRN		
	Index 6 : P9_DW002_FI, FX_DW002_CIF_NO		
Column Name	Column Type	Mandatory	Column Description
FX_DW002_HME_ADDR_2	CHAR(40)	✓	The resident address of the cardholder (Line 2)
FX_DW002_HME_ADDR_3	CHAR(40)	✓	The resident address of the cardholder (Line 3)
FX_DW002_HME_ADDR_4	CHAR(40)	✓	The resident address of the cardholder (Line 4)
FX_DW002_HME_ST_CDE	CHAR(40)	✓	The state code of the cardholder's resident address
FX_DW002_HME_ZIP	CHAR(10)	✓	The zip code of the cardholder's resident address
FX_DW002_HME_TOWN	CHAR(35)	✓	The town of the cardholder's resident address
FX_DW002_HME_CNTRY	CHAR(4)	✓	The country of the cardholder's resident address
FX_DW002_HME_TEL	CHAR(40)	✓	The telephone number the cardholder's resident address
FX_DW002_OWN_PROP_FLG	CHAR(5)	✓	The residence type of the applicant

Table Name	DW002		
Table Description	To store all the cardholder profiles that input/updated by user		
Primary Key	P9_DW002_FI, P9_DW002_CRN		
Index	Index 1 : FX_DW002_NEW_ID, FX_DW002_NEW_ID_IND		
	Index 2 : P9_DW002_FI, FX_DW002_NATL, FX_DW002_NEW_ID, FX_DW002_NEW_ID_IND		
	Index 3 : FX_DW002_NAME		
	Index 4 : P9_DW002_FI, FX_DW002_REVW_CDE		
	Index 5: P9_DW002_FI, FX_DW002_NAME, P9_DW002_CRN		
	Index 6 : P9_DW002_FI, FX_DW002_CIF_NO		
Column Name	Column Type	Mandatory	Column Description
			“M” – Mortgage “P” – Own Property “R” – Rented Property “V” - Relative “O” - Others
FX_DW002_INDS_CDE	CHAR(5)	Only mandatory for Credit Card	The job industry worked by the cardholder
FX_DW002_OFF_NAME	CHAR(50)		The company name that the cardholder work with
FX_DW002_OFF_DEPT	CHAR(30)		The name of the department that the cardholder work with
FX_DW002_OFF_ADDR_1	CHAR(40)		The company address (Line 1)
FX_DW002_OFF_ADDR_2	CHAR(40)		The company address (Line 2)

Table Name	DW002		
Table Description	To store all the cardholder profiles that input/updated by user		
Primary Key	P9_DW002_FI, P9_DW002_CRN		
Index	Index 1 : FX_DW002_NEW_ID, FX_DW002_NEW_ID_IND		
	Index 2 : P9_DW002_FI, FX_DW002_NATL, FX_DW002_NEW_ID, FX_DW002_NEW_ID_IND		
	Index 3 : FX_DW002_NAME		
	Index 4 : P9_DW002_FI, FX_DW002_REVW_CDE		
	Index 5: P9_DW002_FI, FX_DW002_NAME, P9_DW002_CRN		
	Index 6 : P9_DW002_FI, FX_DW002_CIF_NO		
Column Name	Column Type	Mandatory	Column Description
FX_DW002_OFF_ADDR_3	CHAR(40)		The company address (Line 3)
FX_DW002_OFF_ADDR_4	CHAR(40)		The company address (Line 4)
FX_DW002_OFF_ST_CDE	CHAR(40)		The state code of the company address
FX_DW002_OFF_ZIP	CHAR(10)		The zip code of the company address
FX_DW002_OFF_TOWN	CHAR(35)		The town of the company address
FX_DW002_OFF_CNTRY	CHAR(4)		The country of the company address
FX_DW002_OFF_TEL_1	CHAR(40)		The primary telephone number of the company
FX_DW002_OFF_TEL_EXT_1	CHAR(6)		The extension of the primary telephone number of the company
FX_DW002_OFF_TEL_2	CHAR(40)		The primary telephone number of the company

Table Name	DW002		
Table Description	To store all the cardholder profiles that input/updated by user		
Primary Key	P9_DW002_FI, P9_DW002_CRN		
Index	Index 1 : FX_DW002_NEW_ID, FX_DW002_NEW_ID_IND Index 2 : P9_DW002_FI, FX_DW002_NATL, FX_DW002_NEW_ID, FX_DW002_NEW_ID_IND Index 3 : FX_DW002_NAME Index 4 : P9_DW002_FI, FX_DW002_REVW_CDE Index 5: P9_DW002_FI, FX_DW002_NAME, P9_DW002_CRN Index 6 : P9_DW002_FI, FX_DW002_CIF_NO		
Column Name	Column Type	Mandatory	Column Description
FX_DW002_OFF_TEL_EXT_2	CHAR(6)		The extension of the primary telephone number of the company
FX_DW002_OFF_FAX	CHAR(15)		The fax number of the company
FX_DW002_POS_HELD	CHAR(4)		The position hold by the cardholder in the company
F9_DW002_ANN_INCM	NUMBER(18)		The annual income of the cardholder
FX_DW002_EMAIL_ADDR	CHAR(100)		The email address of the cardholder
FX_DW002_HP	CHAR(22)		The hand phone number of the cardholder
FX_DW002_MUM_NAME	CHAR(120)		The mother name of the cardholder
FX_DW002_SPE_NAME	CHAR(120)		The spouse name
FX_DW002_REVW_CDE	CHAR(2)	✓	The customer category of the cardholder

Table Name	DW002		
Table Description	To store all the cardholder profiles that input/updated by user		
Primary Key	P9_DW002_FI, P9_DW002_CRN		
Index	Index 1 : FX_DW002_NEW_ID, FX_DW002_NEW_ID_IND		
	Index 2 : P9_DW002_FI, FX_DW002_NATL, FX_DW002_NEW_ID, FX_DW002_NEW_ID_IND		
	Index 3 : FX_DW002_NAME		
	Index 4 : P9_DW002_FI, FX_DW002_REVW_CDE		
	Index 5: P9_DW002_FI, FX_DW002_NAME, P9_DW002_CRN		
	Index 6 : P9_DW002_FI, FX_DW002_CIF_NO		
Column Name	Column Type	Mandatory	Column Description
FX_DW002_CIF_NO	CHAR(19)	✓	The cardholder's unique customer ID assigned by the customer repository system (core banking)
F9_DW002_EMP_YR	NUMBER(6)	Only mandatory for Credit Card	Indicate when the cardholder join the company and the format is YYYYMM
F9_DW002_PRIN_INCM	NUMBER(18,2)		The yearly main income of the cardholder
F9_DW002_BUS_INCM	NUMBER(18,2)		The yearly business income of the cardholder
F9_DW002_FIX_INCM	NUMBER(18,2)		The yearly fixed income of the cardholder
F9_DW002_OTHR_INCM	NUMBER(18,2)		Other yearly side income of the cardholder
F9_DW002_TOT_INCM	NUMBER(18,2)		The total yearly income of the cardholder

Table Name	DW002		
Table Description	To store all the cardholder profiles that input/updated by user		
Primary Key	P9_DW002_FI, P9_DW002_CRN		
Index	Index 1 : FX_DW002_NEW_ID, FX_DW002_NEW_ID_IND		
	Index 2 : P9_DW002_FI, FX_DW002_NATL, FX_DW002_NEW_ID, FX_DW002_NEW_ID_IND		
	Index 3 : FX_DW002_NAME		
	Index 4 : P9_DW002_FI, FX_DW002_REVW_CDE		
	Index 5: P9_DW002_FI, FX_DW002_NAME, P9_DW002_CRN		
	Index 6 : P9_DW002_FI, FX_DW002_CIF_NO		
Column Name	Column Type	Mandatory	Column Description
FX_DW002_PREV_EMP_NAME	CHAR(50)		The previous company name
FX_DW002_PREV_EMP_ADDR_1	CHAR(40)		The previous company's address (Line 1)
FX_DW002_PREV_EMP_ADDR_2	CHAR(40)		The previous company's address (Line 2)
FX_DW002_PREV_EMP_ADDR_3	CHAR(40)		The previous company's address (Line 3)
FX_DW002_PREV_EMP_ADDR_4	CHAR(40)		The previous company's address (Line 4)
FX_DW002_PREV_EMP_ST_CDE	CHAR(40)		The state code of the previous company's address
FX_DW002_PREV_EMP_ZIP	CHAR(10)		The zip code of the previous company's address
FX_DW002_PREV_EMP_TOWN	CHAR(35)		The town of the previous company's address
FX_DW002_PREV_EMP_CNTRY	CHAR(4)		The country of the previous company's address



Table Name	DW002		
Table Description	To store all the cardholder profiles that input/updated by user		
Primary Key	P9_DW002_FI, P9_DW002_CRN		
Index	Index 1 : FX_DW002_NEW_ID, FX_DW002_NEW_ID_IND		
	Index 2 : P9_DW002_FI, FX_DW002_NATL, FX_DW002_NEW_ID, FX_DW002_NEW_ID_IND		
	Index 3 : FX_DW002_NAME		
	Index 4 : P9_DW002_FI, FX_DW002_REVW_CDE		
	Index 5: P9_DW002_FI, FX_DW002_NAME, P9_DW002_CRN		
	Index 6 : P9_DW002_FI, FX_DW002_CIF_NO		
Column Name	Column Type	Mandatory	Column Description
FX_DW002_PREV_EMP_TEL	CHAR(40)		The telephone number of the previous company
FX_DW002_PREV_EMP_TEL_EXT	CHAR(6)		The country of the previous company's address
F9_DW002_PREV_EMP_YR	NUMBER(6)		Indicate when the applicant join the previous company and the format is YYYYMM
FX_DW002_SP_EMP_NAME	CHAR(50)		The company name of the spouse
FX_DW002_SP_EMP_ADDR_1	CHAR(40)		The company address of the spouse (Line 1)
FX_DW002_SP_EMP_ADDR_2	CHAR(40)		The company address of the spouse (Line 2)
FX_DW002_SP_EMP_ADDR_3	CHAR(40)		The company address of the spouse (Line 3)
FX_DW002_SP_EMP_ADDR_4	CHAR(40)		The company address of the spouse (Line 4)

Table Name	DW002		
Table Description	To store all the cardholder profiles that input/updated by user		
Primary Key	P9_DW002_FI, P9_DW002_CRN		
Index	Index 1 : FX_DW002_NEW_ID, FX_DW002_NEW_ID_IND		
	Index 2 : P9_DW002_FI, FX_DW002_NATL, FX_DW002_NEW_ID, FX_DW002_NEW_ID_IND		
	Index 3 : FX_DW002_NAME		
	Index 4 : P9_DW002_FI, FX_DW002_REVW_CDE		
	Index 5: P9_DW002_FI, FX_DW002_NAME, P9_DW002_CRN		
	Index 6 : P9_DW002_FI, FX_DW002_CIF_NO		
Column Name	Column Type	Mandatory	Column Description
FX_DW002_SP_EMP_ST_CDE	CHAR(40)		The state code of the spouse's company address
FX_DW002_SP_EMP_ZIP	CHAR(10)		The zip code of the spouse's company address
FX_DW002_SP_EMP_TOWN	CHAR(35)		The town of the spouse's company address
FX_DW002_SP_EMP_CNTRY	CHAR(4)		The country of the spouse's company address
FX_DW002_SP_EMP_TEL	CHAR(40)		The telephone number of the spouse's company
FX_DW002_SP_EMP_TEL_EXT	CHAR(6)		The telephone extension number of the spouse's company
FX_DW002_SP_EMP_POS	CHAR(40)		The position hold by the spouse
F9_DW002_SP_EMP_YR	NUMBER(6)		Indicate when the spouse start work for the company and the format is YYYYMM

Table Name	DW002		
Table Description	To store all the cardholder profiles that input/updated by user		
Primary Key	P9_DW002_FI, P9_DW002_CRN		
Index	Index 1 : FX_DW002_NEW_ID, FX_DW002_NEW_ID_IND Index 2 : P9_DW002_FI, FX_DW002_NATL, FX_DW002_NEW_ID, FX_DW002_NEW_ID_IND Index 3 : FX_DW002_NAME Index 4 : P9_DW002_FI, FX_DW002_REVW_CDE Index 5: P9_DW002_FI, FX_DW002_NAME, P9_DW002_CRN Index 6 : P9_DW002_FI, FX_DW002_CIF_NO		
Column Name	Column Type	Mandatory	Column Description
FX_DW002_EMER_CONTC_PERS	CHAR(120)	Only mandatory for Credit Card	The emergency contact person
FX_DW002_EMER_TEL	CHAR(40)		The emergency contact number
FX_DW002_EMER_HP	CHAR(22)		The emergency hand phone contact number
FX_DW002_EMER_RELT	CHAR(1)		The relationship of the emergency contact person and the applicant
FX_DW002_EMER_OFF_TEL	CHAR(40)		The telephone number of the contact number
FX_DW002_EMER_OFF_TEL_EXT	CHAR(6)		The telephone extension number of the contact number
FX_DW002_EDU_LEV	CHAR(4)	✓	The highest education level of the applicant "01" – Primary School "02" – Secondary School "03" – Diploma

Table Name	DW002		
Table Description	To store all the cardholder profiles that input/updated by user		
Primary Key	P9_DW002_FI, P9_DW002_CRN		
Index	Index 1 : FX_DW002_NEW_ID, FX_DW002_NEW_ID_IND		
	Index 2 : P9_DW002_FI, FX_DW002_NATL, FX_DW002_NEW_ID, FX_DW002_NEW_ID_IND		
	Index 3 : FX_DW002_NAME		
	Index 4 : P9_DW002_FI, FX_DW002_REVW_CDE		
	Index 5: P9_DW002_FI, FX_DW002_NAME, P9_DW002_CRN		
	Index 6 : P9_DW002_FI, FX_DW002_CIF_NO		
Column Name	Column Type	Mandatory	Column Description
			“04” – Post Graduate “05” – Degree “06” – Master “07” – Others
FX_DW002_BUS_REGIS_NUM	CHAR(20)		Business registration number
FX_DW002_CHN_BUS_REGIS_NUM	CHAR(20)		Chain business registration number
FX_DW002_CUST_IND	CHAR(2)	✓	To indicate whether the customer is principal card or supplementary cardholder “10” – Principal Card Holder “20” – Supplementary Card Holder

Table Name	DW002		
Table Description	To store all the cardholder profiles that input/updated by user		
Primary Key	P9_DW002_FI, P9_DW002_CRN		
Index	Index 1 : FX_DW002_NEW_ID, FX_DW002_NEW_ID_IND		
	Index 2 : P9_DW002_FI, FX_DW002_NATL, FX_DW002_NEW_ID, FX_DW002_NEW_ID_IND		
	Index 3 : FX_DW002_NAME		
	Index 4 : P9_DW002_FI, FX_DW002_REVW_CDE		
	Index 5: P9_DW002_FI, FX_DW002_NAME, P9_DW002_CRN		
	Index 6 : P9_DW002_FI, FX_DW002_CIF_NO		
Column Name	Column Type	Mandatory	Column Description
F9_DW002_NEW_ID_ISS_DT	NUMBER(8)	✓	The issue date of the cardholder's ID card
FX_DW002_NEW_ID_ISS_LOC	CHAR(25)	✓	The place where the cardholder's ID card is being issued
FX_DW002_SP_IC_NO	CHAR(40)		The ID card number of the spouse

## 2.3 DW003 – Saving/Current Account Number for the Debit Card Application

<b>Table Name</b>	DW003		
<b>Table Description</b>	To store the saving/current account no for the debit card application		
<b>Primary Key</b>	P9_DW003_FI, P9_DW003_PRO_NO, PX_DW003_CB_ACCT_NUM		
<b>Index</b>			
Column Name	Column Type	Mandatory	Column Description
F9_DW003_UPD_TMS	NUMBER(17)	✓	The date and time when the record is updated by data warehouse program
P9_DW003_FI	NUMBER(6)	✓	The unique identification of the bank
P9_DW003_PRO_NO	NUMBER(8)	✓	The processing number of the new card application
PX_DW003_CB_ACCT_NUM	CHAR(30)	✓	The saving/current account number link to the debit card
FX_DW003_ACCT_TYP	CHAR(2)	✓	The account type of the account number that linked to the debit card "10" – Saving Account "20" – Current Account
F9_DW003_CRNCY_CDE	NUMBER(3)	✓	The currency code for the account that linked to the debit card
FX_DW003_DEF_ACCT_IND	CHAR(1)	✓	Indicate whether the account number is default or non-default account. System will always use the default account number if multiple accounts exist for the card and no account number is being specified by the cardholder when perform any transaction

Table Name	DW003		
Table Description	To store the saving/current account no for the debit card application		
Primary Key	P9_DW003_FI, P9_DW003_PRO_NO, PX_DW003_CB_ACCT_NUM		
Index			
Column Name	Column Type	Mandatory	Column Description
			"Y" – Default Account
			"N" – Non-default Account

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### 2.4 DW004 – Financial Information for All the Accounts Managed By CARDWORKS™ (Exclude the Debit Account)

Table Name	DW004		
Table Description	To store the financial information for all the accounts managed by CARDWORKS™ (exclude the debit account)		
Primary Key	P9_DW004_FI, P9_DW004_PRIN_CRN, P9_DW004_LOC_ACCT		
Index	Index 1 : P9_DW004_FI, P9_DW004_LOC_ACCT Index 2 : F9_DW004_STMT_DUE_DT		
Column Name	Column Type	Mandatory	Column Description
F9_DW004_UPD_TMS	NUMBER(17)	✓	The date and time when the record is updated by data warehouse program
P9_DW004_FI	NUMBER(6)	✓	The unique identification of the bank
P9_DW004_PRIN_CRN	NUMBER(9)	✓	The unique customer relationship number generated by the system for the principal card
P9_DW004_LOC_ACCT	NUMBER(12)	✓	The account number of the cardholder
FX_DW004_CRD_BRN	CHAR(2)	✓	The brand of the card “LC” – Local card “VS” – Visa card “MC” – MasterCard
FX_DW004_LOC_STAT	CHAR(1)	✓	The current account status “N” – New and non-activated account



Table Name	DW004		
Table Description	To store the financial information for all the accounts managed by CARDWORKS™ (exclude the debit account)		
Primary Key	P9_DW004_FI, P9_DW004_PRIN_CRN, P9_DW004_LOC_ACCT		
Index	Index 1 : P9_DW004_FI, P9_DW004_LOC_ACCT Index 2 : F9_DW004_STMT_DUE_DT		
Column Name	Column Type	Mandatory	Column Description
			"G" – Good Account "P" – Non-performance loan/facility "C" – Cancelled Account "W" – Written off account "S" – Cancelled and fully settled account
F9_DW004_LOC_STAT_DT	NUMBER(8)	✓	The date when the account status is changed
F9_DW004_LOC_LMT	NUMBER(10)	✓	The credit limit of the account
F9_DW004_CHRG_ACCT_LMT	NUMBER(10)		The additional charge account limit granted to the account
F9_DW004_SPCL_LMT	NUMBER(10)		The special account limit granted to the account
F9_DW004_SPCL_LMT_EXPI_DT	NUMBER(8)		The expiry date of the special limit granted to the account
FX_DW004_SPCL_REAS_CDE	CHAR(1)		The reason to grant the special limit to the account
F9_DW004_CYCC_DAY	NUMBER(2)	Only mandatory	The billing cycle day of the account where system will calculate billing payment

Table Name	DW004		
Table Description	To store the financial information for all the accounts managed by CARDWORKS™ (exclude the debit account)		
Primary Key	P9_DW004_FI, P9_DW004_PRIN_CRN, P9_DW004_LOC_ACCT		
Index	Index 1 : P9_DW004_FI, P9_DW004_LOC_ACCT Index 2 : F9_DW004_STMT_DUE_DT		
Column Name	Column Type	Mandatory	Column Description
		for non-debit account	
F9_DW004_OPEN_BAL	NUMBER(18,2)		Bring forward balance from previous month and must be left pad with leading zeroes. A +/- sign in front will indicating whether the amount is positive or negative
F9_DW004_DB_AMT	NUMBER(18,2)		Total debit amount and must be left pad with leading zeroes. A +/- sign in front will indicating whether the amount is positive or negative
F9_DW004_CR_AMT	NUMBER(18,2)		Total credit amount and must be left pad with leading zeroes. A +/- sign in front will indicating whether the amount is positive or negative
F9_DW004_CLO_BAL	NUMBER(18,2)		Current closing of the account and must be left pad with leading zeroes. A +/- sign in front will indicating whether the amount is positive or negative

Table Name	DW004		
Table Description	To store the financial information for all the accounts managed by CARDWORKS™ (exclude the debit account)		
Primary Key	P9_DW004_FI, P9_DW004_PRIN_CRN, P9_DW004_LOC_ACCT		
Index	Index 1 : P9_DW004_FI, P9_DW004_LOC_ACCT Index 2 : F9_DW004_STMT_DUE_DT		
Column Name	Column Type	Mandatory	Column Description
F9_DW004_PRIN	NUMBER(18,2)		Principal amount of the account and must be left pad with leading zeroes. A +/- sign in front will indicating whether the amount is positive or negative
F9_DW004_TOT_INT	NUMBER(18,2)		The total interest charge by the system due to overdue and the cash advance transaction
F9_DW004_OS_BILL_AMT	NUMBER(18,2)		The total outstanding billed amount
FX_DW004_STOP_STMT_FLG	CHAR(1)		Indicator to indicator whether to stop statement generation:  'Y' – Stop statement generation 'N' – Statement generation as normal
F9_DW004_CMIR	NUMBER(18,2)		Cumulative minimum repayment of the account and must be left pad with leading zeroes. A +/- sign in front will indicating whether the amount is positive or negative
F9_DW004_STMT_DUE_DT	NUMBER(8)		The due date to payment the bill

## CARDWORKS™ Data Warehouse

Table Name	DW004		
Table Description	To store the financial information for all the accounts managed by CARDWORKS™ (exclude the debit account)		
Primary Key	P9_DW004_FI, P9_DW004_PRIN_CRN, P9_DW004_LOC_ACCT		
Index	Index 1 : P9_DW004_FI, P9_DW004_LOC_ACCT Index 2 : F9_DW004_STMT_DUE_DT		
Column Name	Column Type	Mandatory	Column Description
F9_DW004_CURR_DPD	NUMBER(3)		No of days the account has been overdue
FX_DW004_CURR_AGE_CDE	CHAR(2)		Indicate the account aged for how many months
FX_DW004_COLL_BRCH_CDE	CHAR(5)		The branch of the bank to perform the collection
FX_DW004_LEG_CDE	CHAR(4)		Legal action code has been taken if any
F9_DW004_LEG_DT	NUMBER(8)		The date when the legal action is taken
F9_DW004_ACCR_CSH_INT	NUMBER(16,4)		Accrue cash advance interest/profit to the account
F9_DW004_ACCR_RTL_INT	NUMBER(16,4)		Accrue retail advance interest/profit to the account
FX_DW004_BIL_ADDR_1	CHAR(40)		The statement delivery address (Line 1)
FX_DW004_BIL_ADDR_2	CHAR(40)		The statement delivery address (Line 2)
FX_DW004_BIL_ADDR_3	CHAR(40)		The statement delivery address (Line 3)
FX_DW004_BIL_ADDR_4	CHAR(40)		The statement delivery address (Line 4)
FX_DW004_BIL_ST_CDE	CHAR(40)		The state code of the statement delivery address

Table Name	DW004		
Table Description	To store the financial information for all the accounts managed by CARDWORKS™ (exclude the debit account)		
Primary Key	P9_DW004_FI, P9_DW004_PRIN_CRN, P9_DW004_LOC_ACCT		
Index	Index 1 : P9_DW004_FI, P9_DW004_LOC_ACCT Index 2 : F9_DW004_STMT_DUE_DT		
Column Name	Column Type	Mandatory	Column Description
FX_DW004_BIL_ZIP	CHAR(10)		The zip code of the statement delivery address
FX_DW004_BIL_TOWN	CHAR(35)		The town of the statement delivery address
FX_DW004_BIL_CNTRY	CHAR(3)		The country of the statement delivery address
F9_DW004_LOC_BAL	NUMBER(18,2)		The account remaining balance after deduct the outstanding amount
F9_DW004_CNCL_DT	NUMBER(8)		The date when the account is cancelled
FX_DW004_CLS	CHAR(1)		Indicate the status of the account
FX_DW004_LOC	CHAR(1)		"IE" – RETURNED CARD (CANCEL) "TR" – REGRADED/TRANSFERED "VE" – VOLUNTARY CANCELLATION, A/C CLOSED
FX_DW004_AUTO_DB_OPT	CHAR(1)	✓	To indicate the auto-debit option "0" – Not Auto-Debit "1" – Pay Fixed Amount

Table Name	DW004		
Table Description	To store the financial information for all the accounts managed by CARDWORKS™ (exclude the debit account)		
Primary Key	P9_DW004_FI, P9_DW004_PRIN_CRN, P9_DW004_LOC_ACCT		
Index	Index 1 : P9_DW004_FI, P9_DW004_LOC_ACCT Index 2 : F9_DW004_STMT_DUE_DT		
Column Name	Column Type	Mandatory	Column Description
			"2" – Pay Minimum Repayment Amount "3" – Pay Total Billed Amount
FX_DW004_CASA	CHAR(40)		The Saving/Current account no to be used to pay the credit card bill
F9_DW004_FIX_DB_AMT	NUMBER(18,2)		The fixed amount to be debited for the credit card payment
F9_DW004_LST_PMT_DT	NUMBER(8)		The date of the last payment made by the cardholder
FX_DW004_PMT_METH	CHAR(2)		Indicate what method used by the cardholder to make the payment "C" – Payment by cash "D" – Pay by Auto-debit "Q" – Pay by Cheque "X" – Pay by Fund Transfer
F9_DW004_PMT_AMT	NUMBER(18,2)		The last payment amount
F9_DW004_TYP_OF_CRD	NUMBER(1)	✓	The account type

Table Name	DW004		
Table Description	To store the financial information for all the accounts managed by CARDWORKS™ (exclude the debit account)		
Primary Key	P9_DW004_FI, P9_DW004_PRIN_CRN, P9_DW004_LOC_ACCT		
Index	Index 1 : P9_DW004_FI, P9_DW004_LOC_ACCT Index 2 : F9_DW004_STMT_DUE_DT		
Column Name	Column Type	Mandatory	Column Description
			"0" – Debit card "1" – Credit card "-1" – Prepaid card
F9_DW004_INT_1	NUMBER(18,2)		The interest charges before statement due date
F9_DW004_INT_2	NUMBER(18,2)		The interest charges after statement due date
F9_DW004_INT_IN_SUSP_1	NUMBER(18,2)		Interest in suspend before statement due date
F9_DW004_INT_IN_SUSP_2	NUMBER(18,2)		Interest in suspend after statement due date
FX_DW004_BIL_DELIV_OPT	CHAR(1)		The billing statement delivery option:  H – Home Residence C – Correspondence O – Office

## 2.5 DW005 – Principal Cards Information Updated By the Users

<b>Table Name</b>	DW005		
<b>Table Description</b>	To store all the principal cards information updated by the users		
<b>Primary Key</b>	P9_DW005_FI, PX_DW005_PAN		
<b>Index</b>	Index 1 : PX_DW005_PAN Index 2 : P9_DW005_FI, F9_DW005_CRN, F9_DW005_LOC_ACCT Index 4 : P9_DW005_FI, F9_DW005_OWN_CRN		
<b>Column Name</b>	<b>Column Type</b>	<b>Mandatory</b>	<b>Column Description</b>
F9_DW005_UPD_TMS	NUMBER(17)	✓	The date and time when the record is updated by data warehouse program
P9_DW005_FI	NUMBER(6)	✓	The unique identification of the bank
F9_DW005_CRN	NUMBER(9)	✓	The unique customer relationship number generated by the system for the card
PX_DW005_PAN	CHAR(19)	✓	The encrypted card number
F9_DW005_LOC_ACCT	NUMBER(12)	✓	The account number of the cardholder
F9_DW005_PRO_NO	NUMBER(8)	✓	The processing number of the new application for the card
FX_DW005_CRD_BRN	CHAR(2)	✓	The brand of the card "LC" – Local card "VS" – Visa card



Table Name	DW005		
Table Description	To store all the principal cards information updated by the users		
Primary Key	P9_DW005_FI, PX_DW005_PAN		
Index	Index 1 : PX_DW005_PAN Index 2 : P9_DW005_FI, F9_DW005_CRN, F9_DW005_LOC_ACCT Index 4 : P9_DW005_FI, F9_DW005_OWN_CRN		
Column Name	Column Type	Mandatory	Column Description
			"MC" - MasterCard
FX_DW005_CRD_PRD	CHAR(1)	✓	The product of the card "C" – Classic card "G" – Gold card "P" – Platinum card
FX_DW005_CRD_PGM	CHAR(6)	✓	The card program of the card
FX_DW005_SRC_CDE	CHAR(5)	✓	The code to indicate the source of the card is being created
FX_DW005_FEE_CDE	CHAR(4)	✓	The fee program to be used to calculate the card management fee such as issuing fee, renewal fee, PIN change fee and etc
FX_DW005_EMB_NAME	CHAR(22)		The name that embossed on the card
F9_DW005_ANV_DT	NUMBER(8)	✓	The anniversary date for the card
F9_DW005_EXPI_DT	NUMBER(6)	✓	The expiry date of the card

Table Name	DW005		
Table Description	To store all the principal cards information updated by the users		
Primary Key	P9_DW005_FI, PX_DW005_PAN		
Index	Index 1 : PX_DW005_PAN		
	Index 2 : P9_DW005_FI, F9_DW005_CRN, F9_DW005_LOC_ACCT		
	Index 4 : P9_DW005_FI, F9_DW005_OWN_CRN		
Column Name	Column Type	Mandatory	Column Description
FX_DW005_CRD_STAT	CHAR(2)		The status of the card  'CC' – Cancelled By System 'IE' – Cancelled – Return Card 'TR' – Re-graded /Transferred 'VE' – Voluntary Cancelled
F9_DW005_CNCL_DT	NUMBER(8)		The date when the card is cancelled
FX_DW005_SLS_OFC_CDE	CHAR(5)	✓	The code of the sales man who bring in the customer
FX_DW005_REF_PAN	CHAR(19)		The encrypted card number for the previous card that replaced by the new card
FX_DW005_RECOMDR_PAN	CHAR(19)		The card number of the recommender
FX_DW005_REN_FLG	CHAR(1)	✓	The flag to indicate whether the card is renewal able
F9_DW005_REN_DT	NUMBER(8)		The date when the card is renewed
FX_DW005_CHIP_CRD_ATV_FLG	CHAR(1)	✓	The flag to indicate whether the system shall generate PIN for the card

<b>Table Name</b>	DW005		
<b>Table Description</b>	To store all the principal cards information updated by the users		
<b>Primary Key</b>	P9_DW005_FI, PX_DW005_PAN		
<b>Index</b>	Index 1 : PX_DW005_PAN Index 2 : P9_DW005_FI, F9_DW005_CRN, F9_DW005_LOC_ACCT Index 4 : P9_DW005_FI, F9_DW005_OWN_CRN		
Column Name	Column Type	Mandatory	Column Description
F9_DW005_CRD_ATV_DT	NUMBER(8)		The date when the card is activated
FX_DW005_CRD_ATV_UID	CHAR(8)		The user id who activated the card
F9_DW005_CAP_LMT	NUMBER(10)		The maximum credit limit to be used by cardholder for the card
F9_DW005_OWN_CRN	NUMBER(9)	✓	The unique customer relationship number generated by the system when the card is created
<b>F9_DW005_STMT_OPT</b>	<b>NUMBER(1)</b>		<b>The statement option of the card.</b>
FX_DW005_1ST_TXN_IND	CHAR(1)	✓	Indicate the card is being used to perform the transaction "Y" – 1 <sup>st</sup> transaction already performed by the cardholder "N" – No transaction at all
F9_DW005_NO_SUPP_CRD	NUMBER(2)		Indicate the number of supplementary card attached to it
FX_DW005_EMV_FLG	CHAR(1)	✓	Indicate whether the card is EMV or magstripe card "Y" – EMV card

Table Name	DW005		
Table Description	To store all the principal cards information updated by the users		
Primary Key	P9_DW005_FI, PX_DW005_PAN		
Index	Index 1 : PX_DW005_PAN		
	Index 2 : P9_DW005_FI, F9_DW005_CRN, F9_DW005_LOC_ACCT		
	Index 4 : P9_DW005_FI, F9_DW005_OWN_CRN		
Column Name	Column Type	Mandatory	Column Description
			"N" – Non-EMV card
F9_DW005_SLD_DT	NUMBER(8)		The date when the card is sold
FX_DW005_BRCH_CDE	CHAR(5)	✓	The branch code who issue the card
FX_DW005_REL_FORM	CHAR(1)	✓	The type of release form of the card "Q" – Quick Release "N" – Normal Release
FX_DW005_CONTRC_NO	CHAR(30)		The contract number issued by the bank to cardholder when cardholder the credit card

## 2.6 DW006 – Supplementary Cards Information Updated By the Users

Table Name	DW006		
Table Description	To store all the supplementary cards information updated by the users		
Primary Key	P9_DW006_FI, PX_DW006_OW_N_PAN		
Index	Index 1 : FX_DW006_PRIN_PAN		
	Index 2 : PX_DW006_OW_N_PAN		
	Index 3 : P9_DW006_FI, F9_DW006_CRN		
	Index 4 : P9_DW006_FI, FX_DW006_CRD_PGM, F9_DW006_LOC_ACCT		
Column Name	Column Type	Mandatory	Column Description
F9_DW006_UPD_TMS	NUMBER(17)	✓	The date and time when the record is updated by data warehouse program
P9_DW006_FI	NUMBER(6)	✓	The unique identification of the bank
F9_DW006_CRN	NUMBER(9)	✓	The unique customer relationship number of the principal card
FX_DW006_PRIN_PAN	CHAR(19)	✓	The encrypted card number of the principal card
PX_DW006_OW_N_PAN	CHAR(19)	✓	The encrypted card number of the supplementary card
F9_DW006_LOC_ACCT	NUMBER(12)	✓	The account number of the cardholder
FX_DW006_CRD_BRN	CHAR(2)	✓	The brand of the card "LC" – Local card "VS" – Visa card

Table Name	DW006		
Table Description	To store all the supplementary cards information updated by the users		
Primary Key	P9_DW006_FI, PX_DW006_OWN_PAN		
Index	Index 1 : FX_DW006_PRIN_PAN Index 2 : PX_DW006_OWN_PAN Index 3 : P9_DW006_FI, F9_DW006_CRN Index 4 : P9_DW006_FI, FX_DW006_CRD_PGM, F9_DW006_LOC_ACCT		
Column Name	Column Type	Mandatory	Column Description
			"MC" - MasterCard
FX_DW006_CRD_PRD	CHAR(1)	✓	The product of the card "C" – Classic card "G" – Gold card "P" – Platinum card
FX_DW006_CRD_PGM	CHAR(6)	✓	The card program of the card
FX_DW006_SRC_CDE	CHAR(5)	✓	The code to indicate the source of the card is being created
FX_DW006_FEE_CDE	CHAR(4)	✓	The fee program to be used to calculate the card management fee such as issuing fee, renewal fee, PIN change fee and etc
FX_DW006_EMB_NAME	CHAR(22)		The name that embossed on the card
F9_DW006_ANV_DT	NUMBER(8)	✓	The anniversary date for the card

Table Name	DW006		
Table Description	To store all the supplementary cards information updated by the users		
Primary Key	P9_DW006_FI, PX_DW006_OW_N_PAN		
Index	Index 1 : FX_DW006_PRIN_PAN		
	Index 2 : PX_DW006_OW_N_PAN		
	Index 3 : P9_DW006_FI, F9_DW006_CRN		
	Index 4 : P9_DW006_FI, FX_DW006_CRD_PGM, F9_DW006_LOC_ACCT		
Column Name	Column Type	Mandatory	Column Description
F9_DW006_EXPI_DT	NUMBER(6)	✓	The expiry date of the card
FX_DW006_CRD_STAT	CHAR(2)		The status of the card  'CC' – Cancelled By System 'E' – Cancelled – Return Card 'TR' – Re-graded /Transferred 'VE' – Voluntary Cancelled
F9_DW006_CNCL_DT	NUMBER(8)		The date when the card is cancelled
FX_DW006_SLS_OFC_CDE	CHAR(5)	✓	The code of the sales man who bring in the customer
FX_DW006_REF_PAN	CHAR(19)		The encrypted card number for the previous card that replaced by the new card
FX_DW006_REN_FLG	CHAR(1)		The flag to indicate whether the card is renewal able
F9_DW006_REN_DT	NUMBER(8)		The date when the card is renewed

<b>Table Name</b>	DW006		
<b>Table Description</b>	To store all the supplementary cards information updated by the users		
<b>Primary Key</b>	P9_DW006_FI, PX_DW006_OWPN_PAN		
<b>Index</b>	Index 1 : FX_DW006_PRIN_PAN Index 2 : PX_DW006_OWPN_PAN Index 3 : P9_DW006_FI, F9_DW006_CRN Index 4 : P9_DW006_FI, FX_DW006_CRD_PGM, F9_DW006_LOC_ACCT		
Column Name	Column Type	Mandatory	Column Description
FX_DW006_CHIP_CRD_ATV_FLG	CHAR(1)	✓	The flag to indicate whether the system shall generate PIN for the card
F9_DW006_CRD_ATV_DT	NUMBER(8)		The date when the card is activated
FX_DW006_CRD_ATV_UID	CHAR(8)		The user id who activated the card
F9_DW006_CAP_LMT	NUMBER(10)		maximum credit limit to be used by cardholder for the card
F9_DW006_OWPN_CRN	NUMBER(9)		The unique customer relationship number of the supplementary card
FX_DW006_1ST_TXN_IND	CHAR(1)		Indicate the card is being used to perform the transaction "Y" – 1 <sup>st</sup> transaction already performed by the cardholder "N" – No transaction at all
FX_DW006_RELT2PRIN	CHAR(1)	✓	The relationship of the supplementary card applicant with the principal cardholder. This is applicable to supplementary card



Table Name	DW006		
Table Description	To store all the supplementary cards information updated by the users		
Primary Key	P9_DW006_FI, PX_DW006_OWN_PAN		
Index	Index 1 : FX_DW006_PRIN_PAN Index 2 : PX_DW006_OWN_PAN Index 3 : P9_DW006_FI, F9_DW006_CRN Index 4 : P9_DW006_FI, FX_DW006_CRD_PGM, F9_DW006_LOC_ACCT		
Column Name	Column Type	Mandatory	Column Description
			applicant
FX_DW006_EMV_FLG	CHAR(1)	✓	Indicate whether the card is EMV or magstripe card “Y” – EMV card “N” – Non-EMV card
FX_DW006_BRCH_CDE	CHAR(5)	✓	The branch code who issue the card
FX_DW006_REL_FORM	CHAR(1)	✓	The type of release form of the card “Q” – Quick Release “N” – Normal Release
FX_DW006_CONTRC_NO	CHAR(30)		The contract number issued by the bank to cardholder when cardholder the credit card

## 2.7 DW007 – Authorized Transactions for the Non-Debit Card

Table Name	DW007		
Table Description	To store all the authorized transactions for the non-debit card		
Primary Key	FX_DW007_PAN, F9_DW007_SEQ		
Index	Index 1 : F9_DW007_PRIN_CRN		
	Index 2 : FX_DW007_PAN, F9_DW007_DT, FX_DW007_MID, FX_DW007_APV_CDE		
	Index 3 : F9_DW007_DT, F9_DW007_TM, FX_DW007_PAN		
	Index 4 : FX_DW007_MID, F9_DW007_DT, F9_DW007_TM, FX_DW007_PAN, F9_DW007_SEQ		
Column Name	Column Type	Mandatory	Column Description
F9_DW007_UPD_TMS	NUMBER(17)	✓	The date and time when the record is updated by data warehouse program
FX_DW007_PAN	CHAR(19)	✓	The encrypted card number that used to perform the transaction
F9_DW007_SEQ	NUMBER(6)	✓	A random number generated by the host when perform the authorization
F9_DW007_PRIN_CRN	NUMBER(9)	✓	The unique customer relationship number of the card
F9_DW007_DT	NUMBER(8)	✓	The date when the transaction is performed
F9_DW007_TM	NUMBER(8)	✓	The time when the transaction is performed
FX_DW007_CRD_BRN	CHAR(2)	✓	The brand of the card “LC” – Local card

Table Name	DW007		
Table Description	To store all the authorized transactions for the non-debit card		
Primary Key	FX_DW007_PAN, F9_DW007_SEQ		
Index	Index 1 : F9_DW007_PRIN_CRN		
	Index 2 : FX_DW007_PAN, F9_DW007_DT, FX_DW007_MID, FX_DW007_APV_CDE		
	Index 3 : F9_DW007_DT, F9_DW007_TM, FX_DW007_PAN		
	Index 4 : FX_DW007_MID, F9_DW007_DT, F9_DW007_TM, FX_DW007_PAN, F9_DW007_SEQ		
Column Name	Column Type	Mandatory	Column Description
			"VS" – Visa card
			"MC" – MasterCard
FX_DW007_CRD_PRD	CHAR(1)	✓	The product of the card
			"C" – Classic card
			"G" – Gold card
			"P" – Platinum card
FX_DW007_CRD_PGM	CHAR(6)	✓	The card program of the card
			"C" – Classic card
			"G" – Gold card
			"P" – Platinum card
F9_DW007_AMT_REQ	NUMBER(18,2)	✓	The transaction amount captured by the merchant

Table Name	DW007		
Table Description	To store all the authorized transactions for the non-debit card		
Primary Key	FX_DW007_PAN, F9_DW007_SEQ		
Index	Index 1 : F9_DW007_PRIN_CRN		
	Index 2 : FX_DW007_PAN, F9_DW007_DT, FX_DW007_MID, FX_DW007_APV_CDE		
	Index 3 : F9_DW007_DT, F9_DW007_TM, FX_DW007_PAN		
	Index 4 : FX_DW007_MID, F9_DW007_DT, F9_DW007_TM, FX_DW007_PAN, F9_DW007_SEQ		
Column Name	Column Type	Mandatory	Column Description
F9_DW007_POS_CRNCY_CDE	NUMBER(3)	✓	The currency of the transaction amount captured by the merchant
F9_DW007_ORI_AMT	NUMBER(18,2)	✓	The amount of funds the cardholder requested in the local currency of the acquirer or source location of the transaction.
F9_DW007_CRNCY_CDE	NUMBER(3)	✓	The local currency of the acquirer or source location of the transaction.
FX_DW007_STAT	CHAR(1)	✓	The status of the transaction 'C' – Cancelled 'D' – Declined 'P' – Pick Up 'R' - Referred 'V' - Voided

Table Name	DW007		
Table Description	To store all the authorized transactions for the non-debit card		
Primary Key	FX_DW007_PAN, F9_DW007_SEQ		
Index	Index 1 : F9_DW007_PRIN_CRN		
	Index 2 : FX_DW007_PAN, F9_DW007_DT, FX_DW007_MID, FX_DW007_APV_CDE		
	Index 3 : F9_DW007_DT, F9_DW007_TM, FX_DW007_PAN		
	Index 4 : FX_DW007_MID, F9_DW007_DT, F9_DW007_TM, FX_DW007_PAN, F9_DW007_SEQ		
Column Name	Column Type	Mandatory	Column Description
			'X' – Declined (Pickup card)  ' ' – Approved  'C' – Reversal  'N' – Manual Reversal
FX_DW007_GIVEN_APV_CDE	CHAR(6)	✓	Approval code of the approval request
FX_DW007_GIVEN_RESP_CDE	CHAR(2)	✓	The response code given by the VISA/MC/SML/BNV
FX_DW007_REF_CDE	CHAR(120)		Referral codes of the transaction. Empty denotes approved transaction . The field contain referral codes as below if declined , otherwise space:  '01' - High Risk Transaction '02' – Funds Transfer Not Permitted or Exceed Allowable Limit '03' – Declined Voce Authorization '04' - Invalid Pin Entry

Table Name	DW007		
Table Description	To store all the authorized transactions for the non-debit card		
Primary Key	FX_DW007_PAN, F9_DW007_SEQ		
Index	Index 1 : F9_DW007_PRIN_CRN Index 2 : FX_DW007_PAN, F9_DW007_DT, FX_DW007_MID, FX_DW007_APV_CDE Index 3 : F9_DW007_DT, F9_DW007_TM, FX_DW007_PAN Index 4 : FX_DW007_MID, F9_DW007_DT, F9_DW007_TM, FX_DW007_PAN, F9_DW007_SEQ		
Column Name	Column Type	Mandatory	Column Description
			'05' - CVC1 Verification Failed '06' – Invalid Merchant ID/ Terminal ID '07' - Invalid Transaction Code '08' - Expired Card In Our System '09' - Bad Account or Cardholder obtained Partial Repayment '10' - Bad Card Status/Cancel Location '11' - Card Re-graded more than two months '12' - Decline Due To Chip Fallback/Card Not Useable At This Merchant/Outdoor '13' - Unauthorized Internet Transaction '14' - CVC2 Verification Failed '15' – Unattended Terminal '16' - Non-Sharia Compliant Transaction '17' – Old Card Usage With Renewal Card Activated '18' – Force PIN Change Required '19' - High Cash Advance

Table Name	DW007		
Table Description	To store all the authorized transactions for the non-debit card		
Primary Key	FX_DW007_PAN, F9_DW007_SEQ		
Index	Index 1 : F9_DW007_PRIN_CRN Index 2 : FX_DW007_PAN, F9_DW007_DT, FX_DW007_MID, FX_DW007_APV_CDE Index 3 : F9_DW007_DT, F9_DW007_TM, FX_DW007_PAN Index 4 : FX_DW007_MID, F9_DW007_DT, F9_DW007_TM, FX_DW007_PAN, F9_DW007_SEQ		
Column Name	Column Type	Mandatory	Column Description
			'20' - Card Memo Message '21' - Account Overdue '22' - Chip Authentication Checking Failed '23' – No Response / Error From HSM '24' – No Response / Error from RBS '25' - New Chip Card Not Activated '26' - Decline VBV/UCAF Transaction '27' - Exceed Cap Limit For Principal/Supplementary '28' - Insufficient Funds '30' – Unsupported Transactions '31' – Merchant Not Support / Decline Specify Card Brand '32' – Transaction Amount Over Merchant Terminal Limit '33' - Exceed 3 PIN Tries '34' - High Authorization Frequency '35' - Invalid Card '36' - CVC Failed Earlier Today (Screen Input)

Table Name	DW007		
Table Description	To store all the authorized transactions for the non-debit card		
Primary Key	FX_DW007_PAN, F9_DW007_SEQ		
Index	Index 1 : F9_DW007_PRIN_CRN Index 2 : FX_DW007_PAN, F9_DW007_DT, FX_DW007_MID, FX_DW007_APV_CDE Index 3 : F9_DW007_DT, F9_DW007_TM, FX_DW007_PAN Index 4 : FX_DW007_MID, F9_DW007_TM, FX_DW007_PAN, F9_DW007_SEQ		
Column Name	Column Type	Mandatory	Column Description
FX_DW007_TXN_TYP	CHAR(2)	✓	'37' - Input Expiry Mismatch '38' - Excessive Uncalled Referral '39' - High Single Charge '40' - Manual Card no Entry On POS / CVC Not Sent  Eg : "21 33 <x114 spaces>" denotes there are 2 referral codes i.e 21 with one space at the back , and 33 with one space at the back , the remaining is spaces
			The type of transaction "BE" - Balance Enquiry "QB" – Cheque Book Request "CX" - Cash Withdrawal at on-us POS/none ATM "CU" - Cash Withdrawal at not on-us POS/none ATM



Table Name	DW007		
Table Description	To store all the authorized transactions for the non-debit card		
Primary Key	FX_DW007_PAN, F9_DW007_SEQ		
Index	Index 1 : F9_DW007_PRIN_CRN Index 2 : FX_DW007_PAN, F9_DW007_DT, FX_DW007_MID, FX_DW007_APV_CDE Index 3 : F9_DW007_DT, F9_DW007_TM, FX_DW007_PAN Index 4 : FX_DW007_MID, F9_DW007_DT, F9_DW007_TM, FX_DW007_PAN, F9_DW007_SEQ		
Column Name	Column Type	Mandatory	Column Description
			"CW" - Cash Withdrawal at on-us ATM "CV" - Cash Withdrawal at not on-us ATM "IX" - Intra-fund Transfer "OX" - Inter-fund Transfer "MS" – Mini Statement "PC" – PIN Change "SQ" – Statement Request "RF" – Refund "PM" – Repayment "LD" – Reload/Top-up "DM" – Cash Deposit

Table Name	DW007		
Table Description	To store all the authorized transactions for the non-debit card		
Primary Key	FX_DW007_PAN, F9_DW007_SEQ		
Index	Index 1 : F9_DW007_PRIN_CRN Index 2 : FX_DW007_PAN, F9_DW007_DT, FX_DW007_MID, FX_DW007_APV_CDE Index 3 : F9_DW007_DT, F9_DW007_TM, FX_DW007_PAN Index 4 : FX_DW007_MID, F9_DW007_DT, F9_DW007_TM, FX_DW007_PAN, F9_DW007_SEQ		
Column Name	Column Type	Mandatory	Column Description
			"FC" – Fee Charge "CD" - Cash Advance at on-us POS/none ATM "CI" - Cash Advance at not on-us POS/none ATM "CZ" - Cash Advance at on-us ATM "CN" - Cash Advance at not on-us ATM "TM" - Mail order/Merchandising "XT" - Airline/Travel "H" – Hotel "F" – Restaurant "RA" – Retail "A" – Car Rental

Table Name	DW007		
Table Description	To store all the authorized transactions for the non-debit card		
Primary Key	FX_DW007_PAN, F9_DW007_SEQ		
Index	Index 1 : F9_DW007_PRIN_CRN		
	Index 2 : FX_DW007_PAN, F9_DW007_DT, FX_DW007_MID, FX_DW007_APV_CDE		
	Index 3 : F9_DW007_DT, F9_DW007_TM, FX_DW007_PAN		
	Index 4 : FX_DW007_MID, F9_DW007_DT, F9_DW007_TM, FX_DW007_PAN, F9_DW007_SEQ		
Column Name	Column Type	Mandatory	Column Description
			“UT” – Unique Transaction
FX_DW007_POS_MODE	CHAR(3)	✓	Standard Master/Visa Card Points of Sale entry mode
FX_DW007_CNTRY_CDE	CHAR(3)	✓	Country of the POS location
FX_DW007_POS_COND_CDE	CHAR(11)	✓	Additional POS information as per define in Master/Visa Card specification.
FX_DW007_TID	CHAR(8)	✓	Identifier of the POS/ATM
FX_DW007_ORI_MID	CHAR(15)	✓	Identifier of the card acceptor/merchant ID defined by acquirer
F9_DW007_MCC	NUMBER(4)	✓	Merchant category code
F9_DW007_ACQ_ICA	NUMBER(6)	✓	The financial institution code of the acquirer
FX_DW007_MERC_NAME	CHAR(22)	✓	The card acceptor/merchant name
FX_DW007_FBCK_FLG	CHAR(1)	✓	Denote whether it is fallback transaction

Table Name	DW007		
Table Description	To store all the authorized transactions for the non-debit card		
Primary Key	FX_DW007_PAN, F9_DW007_SEQ		
Index	Index 1 : F9_DW007_PRIN_CRN		
	Index 2 : FX_DW007_PAN, F9_DW007_DT, FX_DW007_MID, FX_DW007_APV_CDE		
	Index 3 : F9_DW007_DT, F9_DW007_TM, FX_DW007_PAN		
	Index 4 : FX_DW007_MID, F9_DW007_DT, F9_DW007_TM, FX_DW007_PAN, F9_DW007_SEQ		
Column Name	Column Type	Mandatory	Column Description
			'Y' – Fallback transaction 'N' – Not fallback transaction
FX_DW007_CONTC_LESS_FLG	CHAR(1)	✓	Denote whether it is a contactless transaction  'Y' – Contactless transaction 'N' – Not contactless transaction
FX_DW007_CHRG_SLP_IND	CHAR(1)	✓	The flag to indicate the transaction is posted and the system reduce the exposure  'Y' – Posted "N" – Not posted
F9_DW007_SURCHRG_FEE	NUMBER(18,2)		The transaction fee imposed by the issuer to pay to the interchange

Table Name	DW007		
Table Description	To store all the authorized transactions for the non-debit card		
Primary Key	FX_DW007_PAN, F9_DW007_SEQ		
Index	Index 1 : F9_DW007_PRIN_CRN Index 2 : FX_DW007_PAN, F9_DW007_DT, FX_DW007_MID, FX_DW007_APV_CDE Index 3 : F9_DW007_DT, F9_DW007_TM, FX_DW007_PAN Index 4 : FX_DW007_MID, F9_DW007_DT, F9_DW007_TM, FX_DW007_PAN, F9_DW007_SEQ		
Column Name	Column Type	Mandatory	Column Description
F9_DW007_SURCHRG_VAT_FEE	NUMBER(18,2)		The VAT of the transaction fee imposed by the issuer to pay to the interchange
F9_DW007_ISS_SURCHRG_FEE	NUMBER(18,2)		The fee earned by the issuer
F9_DW007_ISS_SURCHRG_VAT_FEE	NUMBER(18,2)		The VAT of the fee earned by the issuer
FX_DW007_RTE_DEST	CHAR(1)	✓	Indicate the routing destination of the transaction  M – MasterCard V – VISA B – Smartlink O – On-us ATM/POS
FX_DW007_STND_IN_IND	CHAR(1)		Indicate whether the transaction is performed during stand-in time

## CARDWORKS™ Data Warehouse

Table Name	DW007		
Table Description	To store all the authorized transactions for the non-debit card		
Primary Key	FX_DW007_PAN, F9_DW007_SEQ		
Index	Index 1 : F9_DW007_PRIN_CRN		
	Index 2 : FX_DW007_PAN, F9_DW007_DT, FX_DW007_MID, FX_DW007_APV_CDE		
	Index 3 : F9_DW007_DT, F9_DW007_TM, FX_DW007_PAN		
	Index 4 : FX_DW007_MID, F9_DW007_DT, F9_DW007_TM, FX_DW007_PAN, F9_DW007_SEQ		
Column Name	Column Type	Mandatory	Column Description
			“Y” – Stand-In “N” – Not Stand-In
FX_DW007_ONUS_IND	CHAR(1)	✓	Indicate whether it is onus or not onus merchant “Y” – Onus Merchant “N” – Not Onus Merchant

## CARDWORKS™ Data Warehouse

### 2.8 DW008 – Authorized Transactions for the Debit Card

<b>Table Name</b>	DW008		
<b>Table Description</b>	To store all the authorized transactions for the debit card		
<b>Primary Key</b>	FX_DW008_PAN, P9_DW008_SEQ		
<b>Index</b>	Index 1 : F9_DW008_PRIN_CRN Index 2 : F9_DW008_DT, F9_DW008_TM, FX_DW008_PAN Index 4 : FX_DW008_MID, F9_DW008_DT, F9_DW008_TM, FX_DW008_PAN, P9_DW008_SEQ		
<b>Column Name</b>	<b>Column Type</b>	<b>Mandatory</b>	<b>Column Description</b>
F9_DW008_UPD_TMS	NUMBER(17)	✓	The date and time when the record is updated by data warehouse program
FX_DW008_PAN	CHAR(19)	✓	The encrypted card number that used to perform the transaction
F9_DW008_SEQ	NUMBER(6)	✓	A random number generated by the host when perform the authorization
F9_DW008_PRIN_CRN	NUMBER(9)	✓	The unique customer relationship number of the card
F9_DW008_DT	NUMBER(8)	✓	The date when the transaction is performed
F9_DW008_TM	NUMBER(8)	✓	The time when the transaction is performed
FX_DW008_CRD_BRN	CHAR(2)	✓	The brand of the card “LC” – Local card “VS” – Visa card

Table Name	DW008		
Table Description	To store all the authorized transactions for the debit card		
Primary Key	FX_DW008_PAN, P9_DW008_SEQ		
Index	Index 1 : F9_DW008_PRIN_CRN		
	Index 2 : F9_DW008_DT, F9_DW008_TM, FX_DW008_PAN		
	Index 4 : FX_DW008_MID, F9_DW008_DT, F9_DW008_TM, FX_DW008_PAN, P9_DW008_SEQ		
Column Name	Column Type	Mandatory	Column Description
			"MC" – MasterCard
FX_DW008_CRD_PRD	CHAR(1)	✓	The product of the card "C" – Classic card "G" – Gold card "P" – Platinum card
FX_DW008_CRD_PGM	CHAR(6)	✓	The card program of the card
F9_DW008_AMT_REQ	NUMBER(18,2)	✓	The transaction amount captured by the merchant
F9_DW008_POS_CRNCY_CDE	NUMBER(3)	✓	The currency of the transaction amount captured by the merchant
F9_DW008_ORI_AMT	NUMBER(18,2)	✓	The amount of funds the cardholder requested in the local currency of the acquirer or source location of the transaction.
F9_DW008_CRNCY_CDE	NUMBER(3)	✓	The local currency of the acquirer or source location of the transaction.



<b>Table Name</b>	DW008		
<b>Table Description</b>	To store all the authorized transactions for the debit card		
<b>Primary Key</b>	FX_DW008_PAN, P9_DW008_SEQ		
<b>Index</b>	Index 1 : F9_DW008_PRIN_CRN Index 2 : F9_DW008_DT, F9_DW008_TM, FX_DW008_PAN Index 4 : FX_DW008_MID, F9_DW008_DT, F9_DW008_TM, FX_DW008_PAN, P9_DW008_SEQ		
Column Name	Column Type	Mandatory	Column Description
FX_DW008_STAT	CHAR(1)	✓	The status of the transaction 'C' – Cancelled 'D' – Declined 'P' – Pick Up 'R' - Referred 'V' - Voided 'X' – Declined (Pickup card) ' ' – Approved 'C' – Reversal 'N' – Manual Reversal
FX_DW008_GIVEN_APV_CDE	CHAR(6)	✓	Approval code of the approval request
FX_DW008_GIVEN_RESP_CDE	CHAR(2)	✓	The response code given by the VISA/MC/SML/BNV

<b>Table Name</b>	DW008		
<b>Table Description</b>	To store all the authorized transactions for the debit card		
<b>Primary Key</b>	FX_DW008_PAN, P9_DW008_SEQ		
<b>Index</b>	Index 1 : F9_DW008_PRIN_CRN Index 2 : F9_DW008_DT, F9_DW008_TM, FX_DW008_PAN Index 4 : FX_DW008_MID, F9_DW008_DT, F9_DW008_TM, FX_DW008_PAN, P9_DW008_SEQ		
<b>Column Name</b>	<b>Column Type</b>	<b>Mandatory</b>	<b>Column Description</b>
FX_DW008_REF_CDE	CHAR(120)		Referral codes of the transaction. Empty denotes approved transaction . The field contain referral codes as below if declined , otherwise space:  '01' - High Risk Transaction '02' – Funds Transfer Not Permitted or Exceed Allowable Limit '03' – Declined Voce Authorization '04' - Invalid Pin Entry '05' - CVC1 Verification Failed '06' – Invalid Merchant ID/ Terminal ID '07' - Invalid Transaction Code '08' - Expired Card In Our System '09' - Bad Account or Cardholder obtained Partial Repayment '10' - Bad Card Status/Cancel Location '11' - Card Re-graded more than two months '12' - Decline Due To Chip Falback/Card Not Useable At This Merchant/Outdoor '13' - Unauthorized Internet Transaction

Table Name	DW008		
Table Description	To store all the authorized transactions for the debit card		
Primary Key	FX_DW008_PAN, P9_DW008_SEQ		
Index	Index 1 : F9_DW008_PRIN_CRN Index 2 : F9_DW008_DT, F9_DW008_TM, FX_DW008_PAN Index 4 : FX_DW008_MID, F9_DW008_DT, F9_DW008_TM, FX_DW008_PAN, P9_DW008_SEQ		
Column Name	Column Type	Mandatory	Column Description
			'14' - CVC2 Verification Failed '15' – Unattended Terminal '16' - Non-Sharia Compliant Transaction '17' – Old Card Usage With Renewal Card Activated '18' – Force PIN Change Required '19' - High Cash Advance '20' - Card Memo Message '21' - Account Overdue '22' - Chip Authentication Checking Failed '23' – No Response / Error From HSM '24' – No Response / Error from RBS '25' - New Chip Card Not Activated '26' - Decline VBV/UCAF Transaction '27' - Exceed Cap Limit For Principal/Supplementary '28' - Insufficient Funds '30' – Unsupported Transactions '31' – Merchant Not Support / Decline Specify Card Brand

Table Name	DW008		
Table Description	To store all the authorized transactions for the debit card		
Primary Key	FX_DW008_PAN, P9_DW008_SEQ		
Index	Index 1 : F9_DW008_PRIN_CRN Index 2 : F9_DW008_DT, F9_DW008_TM, FX_DW008_PAN Index 4 : FX_DW008_MID, F9_DW008_DT, F9_DW008_TM, FX_DW008_PAN, P9_DW008_SEQ		
Column Name	Column Type	Mandatory	Column Description
			'32' – Transaction Amount Over Merchant Terminal Limit '33' - Exceed 3 PIN Tries '34' - High Authorization Frequency '35' - Invalid Card '36' - CVC Failed Earlier Today (Screen Input) '37' - Input Expiry Mismatch '38' - Excessive Uncalled Referral '39' - High Single Charge '40' - Manual Card no Entry On POS / CVC Not Sent  Eg : "21 33 <x114 spaces>" denotes there are 2 referral codes i.e 21 with one space at the back , and 33 with one space at the back , the remaining is spaces
FX_DW008_TXN_TYP	CHAR(2)	✓	The type of transaction "BE" - Balance Enquiry

Table Name	DW008		
Table Description	To store all the authorized transactions for the debit card		
Primary Key	FX_DW008_PAN, P9_DW008_SEQ		
Index	Index 1 : F9_DW008_PRIN_CRN Index 2 : F9_DW008_DT, F9_DW008_TM, FX_DW008_PAN Index 4 : FX_DW008_MID, F9_DW008_DT, F9_DW008_TM, FX_DW008_PAN, P9_DW008_SEQ		
Column Name	Column Type	Mandatory	Column Description
			“QB” – Cheque Book Request “CX” - Cash Withdrawal at on-us POS/none ATM “CU” - Cash Withdrawal at not on-us POS/none ATM “CW” - Cash Withdrawal at on-us ATM “CV” - Cash Withdrawal at not on-us ATM “IX” - Intra-fund Transfer “OX” - Inter-fund Transfer “MS” – Mini Statement “PC” – PIN Change “SQ” – Statement Request “RF” – Refund “PM” – Repayment

Table Name	DW008		
Table Description	To store all the authorized transactions for the debit card		
Primary Key	FX_DW008_PAN, P9_DW008_SEQ		
Index	Index 1 : F9_DW008_PRIN_CRN Index 2 : F9_DW008_DT, F9_DW008_TM, FX_DW008_PAN Index 4 : FX_DW008_MID, F9_DW008_DT, F9_DW008_TM, FX_DW008_PAN, P9_DW008_SEQ		
Column Name	Column Type	Mandatory	Column Description
			"LD" – Reload/Top-up "DM" – Cash Deposit "FC" – Fee Charge "CD" - Cash Advance at on-us POS/none ATM "CI" - Cash Advance at not on-us POS/none ATM "CZ" - Cash Advance at on-us ATM "CN" - Cash Advance at not on-us ATM "TM" - Mail order/Merchandising "XT" - Airline/Travel "H" – Hotel "F" – Restaurant "RA" – Retail

Table Name	DW008		
Table Description	To store all the authorized transactions for the debit card		
Primary Key	FX_DW008_PAN, P9_DW008_SEQ		
Index	Index 1 : F9_DW008_PRIN_CRN Index 2 : F9_DW008_DT, F9_DW008_TM, FX_DW008_PAN Index 4 : FX_DW008_MID, F9_DW008_DT, F9_DW008_TM, FX_DW008_PAN, P9_DW008_SEQ		
Column Name	Column Type	Mandatory	Column Description
			"A" – Car Rental
			"UT" – Unique Transaction
FX_DW008_POS_MODE	CHAR(4)	✓	Standard Master/Visa Card Points of Sale entry mode
FX_DW008_CNTRY_CDE	CHAR(3)	✓	Country of the POS location
FX_DW008_POS_COND_CDE	CHAR(11)	✓	Additional POS information as per define in Master/Visa Card specification.
FX_DW008_TID	CHAR(8)	✓	Identifier of the POS/ATM
FX_DW008_ORI_MID	CHAR(15)	✓	Identifier of the card acceptor/merchant ID
F9_DW008_MCC	NUMBER(4)	✓	Merchant category code
F9_DW008_ACQ_ICA	NUMBER(6)	✓	The financial institution code of the acquirer
FX_DW008_MERC_NAME	CHAR(22)	✓	The card acceptor/merchant name
FX_DW008_CB_ACCT_NUM	CHAR(30)	✓	The saving/current account number

Table Name	DW008		
Table Description	To store all the authorized transactions for the debit card		
Primary Key	FX_DW008_PAN, P9_DW008_SEQ		
Index	Index 1 : F9_DW008_PRIN_CRN		
	Index 2 : F9_DW008_DT, F9_DW008_TM, FX_DW008_PAN		
	Index 4 : FX_DW008_MID, F9_DW008_DT, F9_DW008_TM, FX_DW008_PAN, P9_DW008_SEQ		
Column Name	Column Type	Mandatory	Column Description
FX_DW008_TRSFR_ACCT_NUM	CHAR(30)		The saving/current account number of the transferee. Only applicable to fund transfer transaction 'Y' – Fallback transaction 'N' – Not fallback transaction
FX_DW008_FBCK_FLG	CHAR(1)	✓	Denote whether it is fallback transaction  'Y' – Fallback transaction 'N' – Not fallback transaction
FX_DW008_CONTC_LESS_FLG	CHAR(1)	✓	Denote whether it is a contactless transaction  'Y' – Contactless transaction 'N' – Not contactless transaction
FX_DW008_CHRG_SLP_IND	CHAR(1)	✓	The flag to indicate the transaction is posted and the system reduce the exposure  'Y' – Posted " " – Not posted



Table Name	DW008		
Table Description	To store all the authorized transactions for the debit card		
Primary Key	FX_DW008_PAN, P9_DW008_SEQ		
Index	Index 1 : F9_DW008_PRIN_CRN Index 2 : F9_DW008_DT, F9_DW008_TM, FX_DW008_PAN Index 4 : FX_DW008_MID, F9_DW008_DT, F9_DW008_TM, FX_DW008_PAN, P9_DW008_SEQ		
Column Name	Column Type	Mandatory	Column Description
F9_DW008_SURCHRG_FEE	NUMBER(18,2)		The transaction fee imposed by the issuer to pay to the interchange
F9_DW008_SURCHRG_VAT_FEE	NUMBER(18,2)		The VAT of the transaction fee imposed by the issuer to pay to the interchange
F9_DW008_LOAD_FEE	NUMBER(18,2)		The fee earned by the issuer
F9_DW008_LOAD_VAT_FEE	NUMBER(18,2)		The VAT of the fee earned by the issuer
FX_DW008_RTE_DEST	CHAR(1)	✓	Indicate the routing destination of the transaction M – MasterCard V – VISA B – Smartlink O – On-us ATM/POS
FX_DW008_STND_IN_IND	CHAR(1)		Indicate whether the transaction is performed during stand-in time

Table Name	DW008		
Table Description	To store all the authorized transactions for the debit card		
Primary Key	FX_DW008_PAN, P9_DW008_SEQ		
Index	Index 1 : F9_DW008_PRIN_CRN		
	Index 2 : F9_DW008_DT, F9_DW008_TM, FX_DW008_PAN		
	Index 4 : FX_DW008_MID, F9_DW008_DT, F9_DW008_TM, FX_DW008_PAN, P9_DW008_SEQ		
Column Name	Column Type	Mandatory	Column Description
			“Y” – Stand-In “N” – Not Stand-In
FX_DW008_ONUS_IND	CHAR(1)	✓	Indicate whether it is onus or not onus merchant “Y” – Onus Merchant “N” – Not Onus Merchant

## 2.9 DW009 – Transaction Posted By the System

Table Name	DW009		
Table Description	To store all the transaction posted by the system		
Primary Key	P9_DW009_PRIN_CRN, P9_DW009_OW_N_CRN, PX_DW009_OW_N_PAN, P9_DW009_PST_DT, P9_DW009_SEQ_NO, P9_DW009_STMT_NO		
Index	Index 1 : F9_DW009_FI, P9_DW009_PST_DT, FX_DW009_CRD_PGM, F9_DW009_TXN_AMT Index 2 : F9_DW009_FI, P9_DW009_OW_N_CRN, F9_DW009_TXN_DT, P9_DW009_SEQ_NO Index 3 : F9_DW009_FI, P9_DW009_PRIN_CRN, FX_DW009_CRD_BRN, F9_DW009_LOC_ACCT, F9_DW009_STMT_MTH Index 4: F9_DW009_FI, F9_DW009_STMT_MTH Index 5 : F9_DW009_FI, PX_DW009_OW_N_PAN, P9_DW009_PST_DT, F9_DW009_TXN_CDE		
Column Name	Column Type	Mandatory	Column Description
F9_DW009_UPD_TMS	NUMBER(17)	✓	The date and time when the record is updated by data warehouse program
F9_DW009_FI	NUMBER(6)	✓	The unique identification of the bank
P9_DW009_PRIN_CRN	NUMBER(9)	✓	The unique customer relationship number of the principal card
P9_DW009_OW_N_CRN	NUMBER(9)	✓	The unique customer relationship number of the card that posted by the system. It can be CRN of the principal card or supplementary card
PX_DW009_OW_N_PAN	CHAR(19)	✓	The encrypted card number used to perform the transaction.

Table Name	DW009		
Table Description	To store all the transaction posted by the system		
Primary Key	P9_DW009_PRIN_CRN, P9_DW009_OW_N_CRN, PX_DW009_OW_N_PAN, P9_DW009_PST_DT, P9_DW009_SEQ_NO, P9_DW009_STMT_NO		
Index	Index 1 : F9_DW009_FI, P9_DW009_PST_DT, FX_DW009_CRD_PGM, F9_DW009_TXN_AMT Index 2 : F9_DW009_FI, P9_DW009_OW_N_CRN, F9_DW009_TXN_DT, P9_DW009_SEQ_NO Index 3 : F9_DW009_FI, P9_DW009_PRIN_CRN, FX_DW009_CRD_BRN, F9_DW009_LOC_ACCT, F9_DW009_STMT_MTH Index 4: F9_DW009_FI, F9_DW009_STMT_MTH Index 5 : F9_DW009_FI, PX_DW009_OW_N_PAN, P9_DW009_PST_DT, F9_DW009_TXN_CDE		
Column Name	Column Type	Mandatory	Column Description
P9_DW009_PST_DT	NUMBER(8)	✓	The business date when the transaction is posted
P9_DW009_SEQ_NO	NUMBER(6)	✓	A incremented number get from the sequence table
P9_DW009_STMT_NO	NUMBER(8)	✓	A incremented statement no generated by the system to uniquely indentify the transaction when the same card transaction posted at the same day with the same sequence number.  For eg: the sequence number of the cash withdrawal and the fee for the same card at the same day have the same sequence number and the system will generate a different statement no for this two transaction to make it unique

Table Name	DW009		
Table Description	To store all the transaction posted by the system		
Primary Key	P9_DW009_PRIN_CRN, P9_DW009_OW_N_CRN, PX_DW009_OW_N_PAN, P9_DW009_PST_DT, P9_DW009_SEQ_NO, P9_DW009_STMT_NO		
Index	Index 1 : F9_DW009_FI, P9_DW009_PST_DT, FX_DW009_CRD_PGM, F9_DW009_TXN_AMT		
	Index 2 : F9_DW009_FI, P9_DW009_OW_N_CRN, F9_DW009_TXN_DT, P9_DW009_SEQ_NO		
	Index 3 : F9_DW009_FI, P9_DW009_PRIN_CRN, FX_DW009_CRD_BRN, F9_DW009_LOC_ACCT, F9_DW009_STMT_MTH		
	Index 4: F9_DW009_FI, F9_DW009_STMT_MTH		
	Index 5 : F9_DW009_FI, PX_DW009_OW_N_PAN, P9_DW009_PST_DT, F9_DW009_TXN_CDE		
Column Name	Column Type	Mandatory	Column Description
F9_DW009_STMT_MTH	NUMBER(6)	✓	The statement month of the posted transaction
F9_DW009_TXN_DT	NUMBER(8)	✓	The transaction date of the posted transaction
F9_DW009_TXN_CRNCY_CDE	NUMBER(3)	✓	The currency code of the transaction amount captured by the acquirer
F9_DW009_TXN_AMT	NUMBER(18,2)	✓	The actual transaction amount which depends on the POS currency
F9_DW009_TXN_CDE	NUMBER(4)	✓	The general ledger transaction code
FX_DW009_TXN_DESC	CHAR(40)	✓	The transaction description
F9_DW009_SND_ICA	NUMBER(6)		The unique identifier of the acquirer

Table Name	DW009		
Table Description	To store all the transaction posted by the system		
Primary Key	P9_DW009_PRIN_CRN, P9_DW009_OW_N_CRN, PX_DW009_OW_N_PAN, P9_DW009_PST_DT, P9_DW009_SEQ_NO, P9_DW009_STMT_NO		
Index	Index 1 : F9_DW009_FI, P9_DW009_PST_DT, FX_DW009_CRD_PGM, F9_DW009_TXN_AMT		
	Index 2 : F9_DW009_FI, P9_DW009_OW_N_CRN, F9_DW009_TXN_DT, P9_DW009_SEQ_NO		
	Index 3 : F9_DW009_FI, P9_DW009_PRIN_CRN, FX_DW009_CRD_BRN, F9_DW009_LOC_ACCT, F9_DW009_STMT_MTH		
	Index 4: F9_DW009_FI, F9_DW009_STMT_MTH		
	Index 5 : F9_DW009_FI, PX_DW009_OW_N_PAN, P9_DW009_PST_DT, F9_DW009_TXN_CDE		
Column Name	Column Type	Mandatory	Column Description
FX_DW009_APV_CDE	CHAR(6)		The approval code of transaction
F9_DW009_SETL_AMT	NUMBER(18,2)	✓	The settlement amount to be paid to the interchange
F9_DW009_SETL_CRNCY_CDE	NUMBER(3)	✓	The currency code of the settlement amount to be paid to the interchange
F9_DW009_AMT_LCL_CRNCY	NUMBER(18,2)	✓	The local currency amount to be paid by the cardholder
F9_DW009_ISS_CRNCY_CDE	NUMBER(3)	✓	The currency code of the amount to be paid by the cardholder
FX_DW009_TID	CHAR(8)	✓	Identifier of the POS/ATM

Table Name	DW009		
Table Description	To store all the transaction posted by the system		
Primary Key	P9_DW009_PRIN_CRN, P9_DW009_OW_N_CRN, PX_DW009_OW_N_PAN, P9_DW009_PST_DT, P9_DW009_SEQ_NO, P9_DW009_STMT_NO		
Index	Index 1 : F9_DW009_FI, P9_DW009_PST_DT, FX_DW009_CRD_PGM, F9_DW009_TXN_AMT		
	Index 2 : F9_DW009_FI, P9_DW009_OW_N_CRN, F9_DW009_TXN_DT, P9_DW009_SEQ_NO		
	Index 3 : F9_DW009_FI, P9_DW009_PRIN_CRN, FX_DW009_CRD_BRN, F9_DW009_LOC_ACCT, F9_DW009_STMT_MTH		
	Index 4: F9_DW009_FI, F9_DW009_STMT_MTH		
	Index 5 : F9_DW009_FI, PX_DW009_OW_N_PAN, P9_DW009_PST_DT, F9_DW009_TXN_CDE		
Column Name	Column Type	Mandatory	Column Description
FX_DW009_MID	CHAR(15)		Identifier of the card acceptor/merchant ID
F9_DW009_MCC	NUMBER(4)		Merchant category code
FX_DW009_ARN	CHAR(23)		The acquirer reference number generated by the acquirer and it use for chargeback purpose
F9_DW009_COMM_CHRG	NUMBER(14,2)		The commission charge to the transaction
FX_DW009_CRD_BRN	CHAR(2)	✓	The brand of the card "LC" – Local card "VS" – Visa card

Table Name	DW009		
Table Description	To store all the transaction posted by the system		
Primary Key	P9_DW009_PRIN_CRN, P9_DW009_OW_N_CRN, PX_DW009_OW_N_PAN, P9_DW009_PST_DT, P9_DW009_SEQ_NO, P9_DW009_STMT_NO		
Index	Index 1 : F9_DW009_FI, P9_DW009_PST_DT, FX_DW009_CRD_PGM, F9_DW009_TXN_AMT Index 2 : F9_DW009_FI, P9_DW009_OW_N_CRN, F9_DW009_TXN_DT, P9_DW009_SEQ_NO Index 3 : F9_DW009_FI, P9_DW009_PRIN_CRN, FX_DW009_CRD_BRN, F9_DW009_LOC_ACCT, F9_DW009_STMT_MTH Index 4: F9_DW009_FI, F9_DW009_STMT_MTH Index 5 : F9_DW009_FI, PX_DW009_OW_N_PAN, P9_DW009_PST_DT, F9_DW009_TXN_CDE		
Column Name	Column Type	Mandatory	Column Description
			"MC" - MasterCard
FX_DW009_CRD_PRD	CHAR(1)	✓	The product of the card "C" – Classic card "G" – Gold card "P" – Platinum card
FX_DW009_CRD_PGM	CHAR(6)		The card program of the card
FX_DW009_PRIN_PAN	CHAR(19)	✓	The encrypted principal card number
F9_DW009_LOC_ACCT	NUMBER(12)	✓	The account number



<b>Table Name</b>	DW009
<b>Table Description</b>	To store all the transaction posted by the system
<b>Primary Key</b>	P9_DW009_PRIN_CRN, P9_DW009_OW_N_CRN, PX_DW009_OW_N_PAN, P9_DW009_PST_DT, P9_DW009_SEQ_NO, P9_DW009_STMT_NO
<b>Index</b>	Index 1 : F9_DW009_FI, P9_DW009_PST_DT, FX_DW009_CRD_PGM, F9_DW009_TXN_AMT Index 2 : F9_DW009_FI, P9_DW009_OW_N_CRN, F9_DW009_TXN_DT, P9_DW009_SEQ_NO Index 3 : F9_DW009_FI, P9_DW009_PRIN_CRN, FX_DW009_CRD_BRN, F9_DW009_LOC_ACCT, F9_DW009_STMT_MTH Index 4: F9_DW009_FI, F9_DW009_STMT_MTH Index 5 : F9_DW009_FI, PX_DW009_OW_N_PAN, P9_DW009_PST_DT, F9_DW009_TXN_CDE
<b>Column Name</b>	<b>Column Type</b> <b>Mandatory</b> <b>Column Description</b>
FX_DW009_ADJ_CDE	CHAR(5) The adjustment code for the credit/debit adjustment
FX_DW009_CBK_PAN	CHAR(19) The card number for chargeback purpose

## 2.10 DW010 – Reward Point Summary Information

<b>Table Name</b>	DW010		
<b>Table Description</b>	To store all reward point summary information		
<b>Primary Key</b>	P9_DW010_FI, PX_DW010_CIF_NO, PX_DW010_SUB_ACCT_NUM		
<b>Index</b>			
Column Name	Column Type	Mandatory	Column Description
F9_DW010_UPD_TMS	NUMBER(17)	✓	The date and time when the record is updated by data warehouse program
P9_DW010_FI	NUMBER(6)	✓	The unique identification of the bank
PX_DW010_CIF_NO	CHAR(19)	✓	There are two possible value for this field. For merchant reward point, this field will store the merchant ID. For cardholder reward point, this field will store the customer information number that retrieve from core banking
PX_DW010_SUB_ACCT_NUM	CHAR(40)		The account number of the cardholder. This field is not applicable to merchant
FX_DW010_MST_ACCT_NUM	CHAR(40)		The customer relationship number generated by the system for the cardholder. This field is not applicable to merchant
FX_DW010_SUB_SYS	CHAR(18)	✓	A description to identify the system interface to reward point module
F9_DW010_OPEN_PT	NUMBER(16)		The point bring forward from previous month

Table Name	DW010		
Table Description	To store all reward point summary information		
Primary Key	P9_DW010_FI, PX_DW010_CIF_NO, PX_DW010_SUB_ACCT_NUM		
Index			
Column Name	Column Type	Mandatory	Column Description
F9_DW010_AWRD_PT	NUMBER(16)		The current month awarded point
F9_DW010_BONUS_PT	NUMBER(16)		The bonus point.
F9_DW010_RDM_PT	NUMBER(16)		The total redeemed point
F9_DW010_CLS_PT	NUMBER(16)		The total available reward point
F9_DW010_LST_RDM_PT	NUMBER(16)		The last redeemed point
F9_DW010_LST_RDM_DT	NUMBER(8)		The last redemption date
F9_DW010_CURR_AWRD_PT	NUMBER(16)		The total reward point
F9_DW010_PT_EXPI_DT1	NUMBER(6)		The date of the 1 <sup>st</sup> last expired point
F9_DW010_PT_EXPI_PT1	NUMBER(16)		The 1 <sup>st</sup> last expired point
F9_DW010_PT_EXPI_DT2	NUMBER(6)		The date of the 2 <sup>nd</sup> last expired point
F9_DW010_PT_EXPI_PT2	NUMBER(16)		The 2 <sup>nd</sup> last expired point
F9_DW010_PT_EXPI_DT3	NUMBER(6)		The date of the 3 <sup>rd</sup> last expired point
F9_DW010_PT_EXPI_PT3	NUMBER(16)		The 3 <sup>rd</sup> last expired point

## 2.11 DW011 – Reward Point Details Transaction

<b>Table Name</b>	DW011		
<b>Table Description</b>	To store all reward point details transaction		
<b>Primary Key</b>	P9_DW011_FI, PX_DW011_CIF_NO, PX_DW011_SUB_ACCT_NUM, P9_DW011_DT_IN_MTH , P9_DW011_SEQ_NUM		
<b>Index</b>			
<b>Column Name</b>	<b>Column Type</b>	<b>Mandatory</b>	<b>Column Description</b>
F9_DW011_UPD_TMS	NUMBER(17)	✓	The date and time when the record is updated by data warehouse program
P9_DW011_FI	NUMBER(6)	✓	The unique identification of the bank
PX_DW011_CIF_NO	CHAR(19)	✓	There are two possible values for this field. For merchant reward point, this field will store the merchant ID. For cardholder reward point, this field will store the customer information number that retrieve from core banking
PX_DW011_SUB_ACCT_NUM	CHAR(40)		The account number of the cardholder. This field is not applicable to merchant
P9_DW011_DT_IN_MTH	NUMBER(6)		The month of the reward point being created. The format is YYYYMM
P9_DW011_SEQ_NUM	NUMBER(6)	✓	A sequence number to indicate the number of record inserted by the system

Table Name	DW011		
Table Description	To store all reward point details transaction		
Primary Key	P9_DW011_FI, PX_DW011_CIF_NO, PX_DW011_SUB_ACCT_NUM, P9_DW011_DT_IN_MTH , P9_DW011_SEQ_NUM		
Index			
Column Name	Column Type	Mandatory	Column Description
FX_DW011_MST_ACCT_NUM	CHAR(40)		The customer relationship number generated by the system for the cardholder. This field is not applicable to merchant
F9_DW011_PT	NUMBER(16)	✓	The point awarded
F9_DW011_PT_CDE	NUMBER(4)	✓	Indicate the type of award point
F9_DW011_TXN_AMT	NUMBER(18,2)	✓	The transaction amount and the system use this information to calculate the point
F9_DW011_POST_DT	NUMBER(8)	✓	The transaction date
F9_DW011_APV_CDE	NUMBER(6)		The approve code of the authorisation transaction
F9_DW011_MCC	NUMBER(4)		The merchant category code of the authorisation transaction
FX_DW011_TXN_DESC	CHAR(40)	✓	The transaction description
F9_DW011_TXN_CRNCY_CDE	NUMBER(3)	✓	The currency code of the transaction amount

## 2.12 DW012 – Linking Of the Old and New Card Number for the Card Replacement, Upgrading, Downgrading and Conversion Performed By the User

<b>Table Name</b>	DW012		
<b>Table Description</b>	To store the linking of the old and new card number for the card replacement, upgrading, downgrading and conversion performed by the user		
<b>Primary Key</b>	PX_DW012_N_PAN, PX_DW012_O_PAN		
<b>Index</b>			
Column Name	Column Type	Mandatory	Column Description
F9_DW012_UPD_TMS	NUMBER(17)	✓	The date and time when the record is updated by data warehouse program
F9_DW012_FI	NUMBER(6)	✓	The unique identification of the bank
F9_DW012_OWN_CRN	NUMBER(9)	✓	The customer relationship number generated by the system for the cardholder
PX_DW012_N_PAN	CHAR(19)	✓	The new card number
PX_DW012_O_PAN	CHAR(19)	✓	The old card number
FX_DW012_CRD_TYP	CHAR(1)	✓	The card type “B” – Principal/Basic card “S” – Supplementary card
FX_DW012_PRIN_PAN	CHAR(19)	✓	The principal card's number will be stored if the card is supplementary card

Table Name	DW012		
Table Description	To store the linking of the old and new card number for the card replacement, upgrading, downgrading and conversion performed by the user		
Primary Key	PX_DW012_N_PAN, PX_DW012_O_PAN		
Index			
Column Name	Column Type	Mandatory	Column Description
FX_DW012_O_CRD_PGM	CHAR(6)	✓	The card program of the old card
FX_DW012_N_CRD_PGM	CHAR(6)	✓	The card program of the new card
FX_DW012_O_CRD_PRD	CHAR(1)	✓	The card product of the old card
FX_DW012_N_CRD_PRD	CHAR(1)	✓	The card product of the new card
FX_DW012_EMB_NAME	CHAR(22)	✓	The name embossed on the card
F9_DW012_EXPI_DT	NUMBER(6)	✓	The expiry date of the new card
FX_DW012_REPL_REAS	CHAR(2)		The card replacement reason. If this field is blank, then it mean it is card upgrade or downgrade or conversion transaction

## 2.13 DW013 – Saving/Current Account Number and Debit Card Mapping Table

<b>Table Name</b>	DW013		
<b>Table Description</b>	To store the saving/current account no for the debit card		
<b>Primary Key</b>	P9_DW013_FI, PX_DW013_PAN, PX_DW013_CB_ACCT_NUM		
<b>Index</b>			
Column Name	Column Type	Mandatory	Column Description
F9_DW013_UPD_TMS	NUMBER(17)	✓	The date and time when the record is updated by data warehouse program
P9_DW013_FI	NUMBER(6)	✓	The unique identification of the bank
PX_DW013_PAN	CHAR(19)	✓	The encrypted card number
PX_DW013_CB_ACCT_NUM	CHAR(30)	✓	The saving/current account number link to the debit card
FX_DW013_ACCT_TYP	CHAR(2)	✓	The account type of the account number that linked to the debit card "10" – Saving Account "20" – Current Account
F9_DW013_CRNCY_CDE	NUMBER(3)	✓	The currency code for the account that linked to the debit card
FX_DW013_DEF_ACCT_IND	CHAR(1)	✓	Indicate whether the account number is default or non-default account. System will always use the default account number if multiple accounts exist for the card and no account number is being specified by the cardholder when perform any transaction



Table Name	DW013		
Table Description	To store the saving/current account no for the debit card		
Primary Key	P9_DW013_FI, PX_DW013_PAN, PX_DW013_CB_ACCT_NUM		
Index			
Column Name	Column Type	Mandatory	Column Description
			"Y" – Default Account "N" – Non-default Account

## CARDWORKS™ Data Warehouse

## 2.14 DW014 – Transactions Performed At On-Us EDC

<b>Table Name</b>	DW014		
<b>Table Description</b>	To store all the transactions performed at onus EDC		
<b>Primary Key</b>	PX_DW014_PAN, P9_DW014_SEQ		
<b>Index</b>	Index 1 : F9_DW014_DT, F9_DW014_TM, P9_DW014_SEQ, FX_DW014_MID, PX_DW014_PAN		
	Index 2 : PX_DW014_PAN		
	Index 3 : F9_DW014_DT		
	Index 4: FX_DW014_MID, FX_DW014_TID		
Column Name	Column Type	Mandatory	Column Description
PX_DW014_PAN	CHAR(19)	✓	The date and time when the record is updated by data warehouse program
P9_DW014_SEQ	NUMBER(6)	✓	The unique identification of the bank
F9_DW014_DT	NUMBER(8)	✓	The date when the transaction is performed
F9_DW014_TM	NUMBER(8)	✓	The time when the transaction is performed
F9_DW014_EXPI_DT	NUMBER(6)	✓	The expiry date of the card
FX_DW014_CRD_BRN	CHAR(2)	✓	The brand of the card
			"LC" – Local card
			"VS" – Visa card
			"MC" - MasterCard

Table Name	DW014		
Table Description	To store all the transactions performed at onus EDC		
Primary Key	PX_DW014_PAN, P9_DW014_SEQ		
Index	Index 1 : F9_DW014_DT, F9_DW014_TM, P9_DW014_SEQ, FX_DW014_MID, PX_DW014_PAN Index 2 : PX_DW014_PAN Index 3 : F9_DW014_DT Index 4: FX_DW014_MID, FX_DW014_TID		
Column Name	Column Type	Mandatory	Column Description
F9_DW014_AMT_REQ	NUMBER(18,2)	✓	The transaction amount captured by the POS
F9_DW014_CRNCY_CDE	NUMBER(3)	✓	The currency of the transaction amount captured by POS
FX_DW014_STAT	CHAR(1)	✓	The status of the transaction  'C' – Cancelled  'D' – Declined  'R' - Referred  'V' - Voided  'X' – Declined (Pickup card)  ' ' – Approved  'C' – Reversal
F9_DW014_STAN	NUMBER(6)	✓	System Trace Audit Number (STAN) is a number a message

Table Name	DW014		
Table Description	To store all the transactions performed at onus EDC		
Primary Key	PX_DW014_PAN, P9_DW014_SEQ		
Index	Index 1 : F9_DW014_DT, F9_DW014_TM, P9_DW014_SEQ, FX_DW014_MID, PX_DW014_PAN Index 2 : PX_DW014_PAN Index 3 : F9_DW014_DT Index 4: FX_DW014_MID, FX_DW014_TID		
Column Name	Column Type	Mandatory	Column Description
			initiator assigns to uniquely identify a transaction.
FX_DW014_APV_CDE	CHAR(6)	✓	Approval code of the approval request
FX_DW014_RESP_CDE	CHAR(2)	✓	The response code given by the VISA/MC/SML/BNV
FX_DW014_REF_CDE	CHAR(120)		Referral codes of the transaction. Empty denotes approved transaction . The field contain referral codes as below if declined , otherwise space:  '01' - High Risk Transaction '02' – Funds Transfer Not Permitted or Exceed Allowable Limit '03' – Declined Voce Authorization '04' - Invalid Pin Entry '05' - CVC1 Verification Failed '06' – Invalid Merchant ID/ Terminal ID '07' - Invalid Transaction Code '08' - Expired Card In Our System

<b>Table Name</b>	DW014		
<b>Table Description</b>	To store all the transactions performed at onus EDC		
<b>Primary Key</b>	PX_DW014_PAN, P9_DW014_SEQ		
<b>Index</b>	Index 1 : F9_DW014_DT, F9_DW014_TM, P9_DW014_SEQ, FX_DW014_MID, PX_DW014_PAN Index 2 : PX_DW014_PAN Index 3 : F9_DW014_DT Index 4: FX_DW014_MID, FX_DW014_TID		
Column Name	Column Type	Mandatory	Column Description
			'09' - Bad Account or Cardholder obtained Partial Repayment '10' - Bad Card Status/Cancel Location '11' - Card Re-graded more than two months '12' - Decline Due To Chip Fallback/Card Not Useable At This Merchant/Outdoor '13' - Unauthorized Internet Transaction '14' - CVC2 Verification Failed '15' - Unattended Terminal '16' - Non-Sharia Compliant Transaction '17' - Old Card Usage With Renewal Card Activated '18' - Force PIN Change Required '19' - High Cash Advance '20' - Card Memo Message '21' - Account Overdue '22' - Chip Authentication Checking Failed '23' - No Response / Error From HSM

Table Name	DW014		
Table Description	To store all the transactions performed at onus EDC		
Primary Key	PX_DW014_PAN, P9_DW014_SEQ		
Index	Index 1 : F9_DW014_DT, F9_DW014_TM, P9_DW014_SEQ, FX_DW014_MID, PX_DW014_PAN Index 2 : PX_DW014_PAN Index 3 : F9_DW014_DT Index 4: FX_DW014_MID, FX_DW014_TID		
Column Name	Column Type	Mandatory	Column Description
			'24' – No Response / Error from RBS '25' - New Chip Card Not Activated '26' - Decline VBV/UCAF Transaction '27' - Exceed Cap Limit For Principal/Supplementary '28' - Insufficient Funds '30' – Unsupported Transactions '31' – Merchant Not Support / Decline Specify Card Brand '32' – Transaction Amount Over Merchant Terminal Limit '33' - Exceed 3 PIN Tries '34' - High Authorization Frequency '35' - Invalid Card '36' - CVC Failed Earlier Today (Screen Input) '37' - Input Expiry Mismatch '38' - Excessive Uncalled Referral '39' - High Single Charge '40' - Manual Card no Entry On POS / CVC Not Sent

Table Name	DW014		
Table Description	To store all the transactions performed at onus EDC		
Primary Key	PX_DW014_PAN, P9_DW014_SEQ		
Index	Index 1 : F9_DW014_DT, F9_DW014_TM, P9_DW014_SEQ, FX_DW014_MID, PX_DW014_PAN Index 2 : PX_DW014_PAN Index 3 : F9_DW014_DT Index 4: FX_DW014_MID, FX_DW014_TID		
Column Name	Column Type	Mandatory	Column Description
FX_DW014_TXN_TYP	CHAR(2)	✓	The type of transaction “BE” - Balance Enquiry “CX” - Cash Withdrawal at on-us POS/none ATM “MS” – Mini Statement “PC” – PIN Change “LD” – Reload/Top-up “FC” – Fee Charge “CD” - Cash Advance at on-us POS/none ATM

Table Name	DW014		
Table Description	To store all the transactions performed at onus EDC		
Primary Key	PX_DW014_PAN, P9_DW014_SEQ		
Index	Index 1 : F9_DW014_DT, F9_DW014_TM, P9_DW014_SEQ, FX_DW014_MID, PX_DW014_PAN		
	Index 2 : PX_DW014_PAN		
	Index 3 : F9_DW014_DT		
	Index 4: FX_DW014_MID, FX_DW014_TID		
Column Name	Column Type	Mandatory	Column Description
			“H” – Hotel “F” – Restaurant “RA” – Retail “A” – Car Rental “UT” – Unique Transaction
FX_DW014_POS_MODE	CHAR(3)	✓	Standard Master/Visa Card Points of Sale entry mode
FX_DW014_POS_COND_CDE	CHAR(11)	✓	Additional POS information as per define in Master/Visa Card specification.
FX_DW014_TID	CHAR(8)		Identifier of the POS
FX_DW014_ONUS_IND	CHAR(1)		Indicate whether it is onus or not onus card “Y” – Onus card



Table Name	DW014		
Table Description	To store all the transactions performed at onus EDC		
Primary Key	PX_DW014_PAN, P9_DW014_SEQ		
Index	Index 1 : F9_DW014_DT, F9_DW014_TM, P9_DW014_SEQ, FX_DW014_MID, PX_DW014_PAN		
	Index 2 : PX_DW014_PAN		
	Index 3 : F9_DW014_DT		
	Index 4: FX_DW014_MID, FX_DW014_TID		
Column Name	Column Type	Mandatory	Column Description
			"N" – Not Onus card
FX_DW014_MID	CHAR(15)	✓	Identifier of the card acceptor/merchant ID
F9_DW014_MCC	NUMBER(4)	✓	Merchant category code
FX_DW014_MERC_NAME	CHAR(22)	✓	The card acceptor/merchant name
F9_DW014_ISS_ICA	NUMBER(6)	✓	The financial institution code of the issuer
FX_DW014_FBCK_FLG	CHAR(1)	✓	Denote whether it is fallback transaction
			'Y' – Fallback transaction
			'N' – Not fallback transaction
F9_DW014_SURCHRG_FEE	NUMBER(18,2)		The transaction fee charge to the issuer
F9_DW014_SURCHRG_VAT_FEE	NUMBER(18,2)		The VAT of the transaction fee charge to the issuer
FX_DW014_CB_ACCT_NUM	CHAR(30)		The saving/current account number

Table Name	DW014		
Table Description	To store all the transactions performed at onus EDC		
Primary Key	PX_DW014_PAN, P9_DW014_SEQ		
Index	Index 1 : F9_DW014_DT, F9_DW014_TM, P9_DW014_SEQ, FX_DW014_MID, PX_DW014_PAN		
	Index 2 : PX_DW014_PAN		
	Index 3 : F9_DW014_DT		
	Index 4: FX_DW014_MID, FX_DW014_TID		
Column Name	Column Type	Mandatory	Column Description
FX_DW014_TRSFR_ACCT_NUM	CHAR(30)		The saving/current account number of the transferee. Only applicable to fund transfer transaction 'Y' – Fallback transaction 'N' – Not fallback transaction

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### 2.15 DW015 – Transactions Performed At On-Us ATM Machine

Table Name	DW015		
Table Description	To store all the transactions performed at onus ATM machine		
Primary Key	PX_DW015_PAN, P9_DW015_SEQ		
Index	Index 1 : F9_DW015_DT, F9_DW015_TM, P9_DW015_SEQ, FX_DW015_MID, PX_DW015_PAN		
	Index 2 : PX_DW015_PAN		
	Index 3 : F9_DW015_DT		
	Index 4: FX_DW015_MID, FX_DW015_TID		
Column Name	Column Type	Mandatory	Column Description
PX_DW015_PAN	CHAR(19)	✓	The date and time when the record is updated by data warehouse program
P9_DW015_SEQ	NUMBER(6)	✓	The unique identification of the bank
F9_DW015_DT	NUMBER(8)	✓	The date when the transaction is performed
F9_DW015_TM	NUMBER(8)	✓	The time when the transaction is performed
F9_DW015_EXPI_DT	NUMBER(6)	✓	The expiry date of the card
FX_DW015_CRD_BRN	CHAR(2)	✓	The brand of the card
			"LC" – Local card
			"VS" – Visa card
			"MC" - MasterCard

Table Name	DW015		
Table Description	To store all the transactions performed at onus ATM machine		
Primary Key	PX_DW015_PAN, P9_DW015_SEQ		
Index	Index 1 : F9_DW015_DT, F9_DW015_TM, P9_DW015_SEQ, FX_DW015_MID, PX_DW015_PAN Index 2 : PX_DW015_PAN Index 3 : F9_DW015_DT Index 4: FX_DW015_MID, FX_DW015_TID		
Column Name	Column Type	Mandatory	Column Description
F9_DW015_AMT_REQ	NUMBER(18,2)	✓	The transaction amount captured by the POS
F9_DW015_CRNCY_CDE	NUMBER(3)	✓	The currency of the transaction amount captured by POS
FX_DW015_STAT	CHAR(1)	✓	The status of the transaction  'C' – Cancelled  'D' – Declined  'R' - Referred  'V' - Voided  'X' – Declined (Pickup card)  ' ' – Approved  'C' – Reversal
F9_DW015_STAN	NUMBER(6)	✓	System Trace Audit Number (STAN) is a number a message

Table Name	DW015		
Table Description	To store all the transactions performed at onus ATM machine		
Primary Key	PX_DW015_PAN, P9_DW015_SEQ		
Index	Index 1 : F9_DW015_DT, F9_DW015_TM, P9_DW015_SEQ, FX_DW015_MID, PX_DW015_PAN Index 2 : PX_DW015_PAN Index 3 : F9_DW015_DT Index 4: FX_DW015_MID, FX_DW015_TID		
Column Name	Column Type	Mandatory	Column Description
			initiator assigns to uniquely identify a transaction.
FX_DW015_APV_CDE	CHAR(6)	✓	Approval code of the approval request
FX_DW015_RESP_CDE	CHAR(2)	✓	The response code given by the VISA/MC/SML/BNV
FX_DW015_REF_CDE	CHAR(120)		Referral codes of the transaction. Empty denotes approved transaction . The field contain referral codes as below if declined , otherwise space:  '01' - High Risk Transaction '02' – Funds Transfer Not Permitted or Exceed Allowable Limit '03' – Declined Voce Authorization '04' - Invalid Pin Entry '05' - CVC1 Verification Failed '06' – Invalid Merchant ID/ Terminal ID '07' - Invalid Transaction Code '08' - Expired Card In Our System

Table Name	DW015		
Table Description	To store all the transactions performed at onus ATM machine		
Primary Key	PX_DW015_PAN, P9_DW015_SEQ		
Index	Index 1 : F9_DW015_DT, F9_DW015_TM, P9_DW015_SEQ, FX_DW015_MID, PX_DW015_PAN Index 2 : PX_DW015_PAN Index 3 : F9_DW015_DT Index 4: FX_DW015_MID, FX_DW015_TID		
Column Name	Column Type	Mandatory	Column Description
			'09' - Bad Account or Cardholder obtained Partial Repayment '10' - Bad Card Status/Cancel Location '11' - Card Re-graded more than two months '12' - Decline Due To Chip Fallback/Card Not Useable At This Merchant/Outdoor '13' - Unauthorized Internet Transaction '14' - CVC2 Verification Failed '15' – Unattended Terminal '16' - Non-Sharia Compliant Transaction '17' – Old Card Usage With Renewal Card Activated '18' – Force PIN Change Required '19' - High Cash Advance '20' - Card Memo Message '21' - Account Overdue '22' - Chip Authentication Checking Failed '23' – No Response / Error From HSM

Table Name	DW015		
Table Description	To store all the transactions performed at onus ATM machine		
Primary Key	PX_DW015_PAN, P9_DW015_SEQ		
Index	Index 1 : F9_DW015_DT, F9_DW015_TM, P9_DW015_SEQ, FX_DW015_MID, PX_DW015_PAN Index 2 : PX_DW015_PAN Index 3 : F9_DW015_DT Index 4: FX_DW015_MID, FX_DW015_TID		
Column Name	Column Type	Mandatory	Column Description
			'24' – No Response / Error from RBS '25' - New Chip Card Not Activated '26' - Decline VBV/UCAF Transaction '27' - Exceed Cap Limit For Principal/Supplementary '28' - Insufficient Funds '30' – Unsupported Transactions '31' – Merchant Not Support / Decline Specify Card Brand '32' – Transaction Amount Over Merchant Terminal Limit '33' - Exceed 3 PIN Tries '34' - High Authorization Frequency '35' - Invalid Card '36' - CVC Failed Earlier Today (Screen Input) '37' - Input Expiry Mismatch '38' - Excessive Uncalled Referral '39' - High Single Charge '40' - Manual Card no Entry On POS / CVC Not Sent

Table Name	DW015		
Table Description	To store all the transactions performed at onus ATM machine		
Primary Key	PX_DW015_PAN, P9_DW015_SEQ		
Index	Index 1 : F9_DW015_DT, F9_DW015_TM, P9_DW015_SEQ, FX_DW015_MID, PX_DW015_PAN Index 2 : PX_DW015_PAN Index 3 : F9_DW015_DT Index 4: FX_DW015_MID, FX_DW015_TID		
Column Name	Column Type	Mandatory	Column Description
FX_DW015_TXN_TYP	CHAR(2)	✓	The type of transaction “BE” - Balance Enquiry “QB” – Cheque Book Request “CW” - Cash Withdrawal at on-us ATM “IX” - Intra-fund Transfer “OX” - Inter-fund Transfer “MS” – Mini Statement “PC” – PIN Change
			Eg : “21 33 <x14 spaces>” denotes there are 2 referral codes i.e 21 with one space at the back , and 33 with one space at the back , the remaining is spaces



Table Name	DW015		
Table Description	To store all the transactions performed at onus ATM machine		
Primary Key	PX_DW015_PAN, P9_DW015_SEQ		
Index	Index 1 : F9_DW015_DT, F9_DW015_TM, P9_DW015_SEQ, FX_DW015_MID, PX_DW015_PAN Index 2 : PX_DW015_PAN Index 3 : F9_DW015_DT Index 4: FX_DW015_MID, FX_DW015_TID		
Column Name	Column Type	Mandatory	Column Description
			“SQ” – Statement Request “PM” – Repayment “LD” – Reload/Top-up “DM” – Cash Deposit “CZ” - Cash Advance at on-us ATM
FX_DW015_POS_MODE	CHAR(3)	✓	Standard Master/Visa Card Points of Sale entry mode
FX_DW015_POS_COND_CDE	CHAR(11)	✓	Additional POS information as per define in Master/Visa Card specification.
FX_DW015_TID	CHAR(8)	✓	Identifier of the ATM
FX_DW0015_ONUS_IND	CHAR(1)	✓	Indicate whether it is onus or not onus card “Y” – Onus card

Table Name	DW015		
Table Description	To store all the transactions performed at onus ATM machine		
Primary Key	PX_DW015_PAN, P9_DW015_SEQ		
Index	Index 1 : F9_DW015_DT, F9_DW015_TM, P9_DW015_SEQ, FX_DW015_MID, PX_DW015_PAN Index 2 : PX_DW015_PAN Index 3 : F9_DW015_DT Index 4: FX_DW015_MID, FX_DW015_TID		
Column Name	Column Type	Mandatory	Column Description
			"N" – Not Onus card
FX_DW015_MID	CHAR(15)	✓	Identifier of the card acceptor/merchant ID
F9_DW015_MCC	NUMBER(4)	✓	Merchant category code
FX_DW015_MERC_NAME	CHAR(22)	✓	The card acceptor/merchant name
F9_DW015_ISS_ICA	NUMBER(6)	✓	The financial institution code of the issuer
FX_DW015_FBCK_FLG	CHAR(1)		Denote whether it is fallback transaction  'Y' – Fallback transaction 'N' – Not fallback transaction
F9_DW015_SURCHRG_FEE	NUMBER(18,2)		The transaction fee charge to the issuer
F9_DW015_SURCHRG_VAT_FEE	NUMBER(18,2)		The VAT of the transaction fee charge to the issuer
FX_DW015_CB_ACCT_NUM	CHAR(30)		The saving/current account number

Table Name	DW015		
Table Description	To store all the transactions performed at onus ATM machine		
Primary Key	PX_DW015_PAN, P9_DW015_SEQ		
Index	Index 1 : F9_DW015_DT, F9_DW015_TM, P9_DW015_SEQ, FX_DW015_MID, PX_DW015_PAN		
	Index 2 : PX_DW015_PAN		
	Index 3 : F9_DW015_DT		
	Index 4: FX_DW015_MID, FX_DW015_TID		
Column Name	Column Type	Mandatory	Column Description
FX_DW015_TRSFR_ACCT_NUM	CHAR(30)		The saving/current account number of the transferee. Only applicable to fund transfer transaction 'Y' – Fallback transaction 'N' – Not fallback transaction

## 2.16 DW016 – Merchant Settlement Info

Table Name	DW016		
Table Description	To store the merchant settlement info		
Primary Key	PX_DW016_MID, P9_DW016_PST_DT, PX_DW016_CRD_BRN, P9_DW016_DEP_NUM, P9_DW016_SEQ_NUM		
Index	Index 1 : PX_DW016_MID, F9_DW016_BAT_DT, PX_DW016_CRD_BRN, P9_DW016_DEP_NUM		
Column Name	Column Type	Mandatory	Column Description
PX_DW016_MID	CHAR(15)	✓	Identifier of the card acceptor/merchant ID
P9_DW016_PST_DT	NUMBER(8)	✓	The date to post the merchant settlement transaction
PX_DW016_CRD_BRN	CHAR(2)	✓	The brand of the card “LC” – Local card “VS” – Visa card “MC” - MasterCard
P9_DW016_DEP_NUM	NUMBER(7)	✓	The deposit number of the merchant settlement transaction
P9_DW016_SEQ_NUM	NUMBER(6)	✓	The number of settlement for a merchant in for a batch process
F9_DW016_PAY_FREQ	NUMBER(3)	✓	The payment frequency which determine when to pay to or receive from the merchant
F9_DW016_BAT_NUM	NUMBER(4)	✓	A number that indicate the type of merchant settlement transaction; Cash advance/withdraw or Retails or Credit

Table Name	DW016		
Table Description	To store the merchant settlement info		
Primary Key	PX_DW016_MID, P9_DW016_PST_DT, PX_DW016_CRD_BRN, P9_DW016_DEP_NUM, P9_DW016_SEQ_NUM		
Index	Index 1 : PX_DW016_MID, F9_DW016_BAT_DT, PX_DW016_CRD_BRN, P9_DW016_DEP_NUM		
Column Name	Column Type	Mandatory	Column Description
			Adjustment
F9_DW016_BAT_DT	NUMBER(8)	✓	The date when the system process the merchant settlement data
FX_DW016_EDC_BAT_NUM	CHAR(3)	✓	The host batch number generated by terminal POS.
FX_DW016_TID	CHAR(8)	✓	Identifier of the POS
F9_DW016_CETRL_PAY	NUMBER(1)	✓	Indicate whether to pay or receive the payment via the central or the respective merchant
F9_DW016_MATUR_DT	NUMBER(8)	✓	The date when to initiate the payment to merchant
F9_DW016_ONUS_NUMOF_CSLP	NUMBER(5)		Number of onus card's sales slip
F9_DW016_ONUS_GR_AMT	NUMBER(18,2)		The total of gross amount for the onus card transaction
F9_DW016_ONUS_ADJ_AMT	NUMBER(18,2)		The total of adjustment amount for the onus card transaction
F9_DW016_ONUS_DISC_AMT	NUMBER(18,2)		The total of commission amount for the onus card transaction to be collected from or paid to the merchant
F9_DW016_ONUS_NET_AMT	NUMBER(18,2)		The total of net amount for the onus card transaction
F9_DW016_ONUS_AMT_SETL	NUMBER(18,2)		The actual settlement amount to be paid or collect from merchant

Table Name	DW016		
Table Description	To store the merchant settlement info		
Primary Key	PX_DW016_MID, P9_DW016_PST_DT, PX_DW016_CRD_BRN, P9_DW016_DEP_NUM, P9_DW016_SEQ_NUM		
Index	Index 1 : PX_DW016_MID, F9_DW016_BAT_DT, PX_DW016_CRD_BRN, P9_DW016_DEP_NUM		
Column Name	Column Type	Mandatory	Column Description
			for the onus card transaction. A +/- sign to indicate to pay to or collect from merchant
F9_DW016_ONUS_DISC_RT	NUMBER(4,2)		The merchant discount rate to be charged to the onus card transaction
F9_DW016_OFUS_NUMOF_SLP	NUMBER(5)		Number of not onus card's sales slip
F9_DW016_OFUS_GR_AMT	NUMBER(18,2)		The total of gross amount for the not onus card transaction
F9_DW016_OFUS_ADJ_AMT	NUMBER(18,2)		The total of adjustment amount for the not onus card transaction
F9_DW016_OFUS_DISC_AMT	NUMBER(18,2)		The total of commission amount for the not onus card transaction to be collected from or paid to the merchant
F9_DW016_OFUS_NET_AMT	NUMBER(18,2)		The total of net amount for the not onus card transaction
F9_DW016_OFUS_AMT_SETL	NUMBER(18,2)		The actual settlement amount to be paid or collect from merchant for the not onus card transaction. A +/- sign to indicate to pay to or collect from merchant
F9_DW016_OFUS_DISC_RT	NUMBER(4,2)		The merchant discount rate to be charged to the not onus card

<b>Table Name</b>	DW016		
<b>Table Description</b>	To store the merchant settlement info		
<b>Primary Key</b>	PX_DW016_MID, P9_DW016_PST_DT, PX_DW016_CRD_BRN, P9_DW016_DEP_NUM, P9_DW016_SEQ_NUM		
<b>Index</b>	Index 1 : PX_DW016_MID, F9_DW016_BAT_DT, PX_DW016_CRD_BRN, P9_DW016_DEP_NUM		
Column Name	Column Type	Mandatory	Column Description
			transaction
F9_DW016_TOT_NUMOF_SLP	NUMBER(8)	✓	The total number of sales slip for the merchant settlement transaction
F9_DW016_TOT_GR_AMT	CHAR(2)	✓	The total gross settlement amount
F9_DW016_TOT_DISC_AMT	NUMBER(7)	✓	The total commission to be collect from or paid to merchant
F9_DW016_TOT_NET_AMT	NUMBER(6)	✓	The total net amount for the merchant settlement transaction
F9_DW016_CRNCY_CDE	NUMBER(4)	✓	The currency of the merchant settlement transaction

## 2.17 DW017 – Merchant Profile Information

<b>Table Name</b>	DW017		
<b>Table Description</b>	To store all merchant profile information		
<b>Primary Key</b>	PX_DW017_MID		
<b>Index</b>			
Column Name	Column Type	Mandatory	Column Description
PX_DW017_MID	CHAR(15)	✓	Identifier of the card acceptor/merchant ID
FX_DW017_MERC_BUS_NAME	CHAR(35)	✓	Merchant business name
FX_DW017_MERC_BUS_ADDR_1	CHAR(35)	✓	Merchant business address 1
FX_DW017_MERC_BUS_ADDR_2	CHAR(35)		Merchant business address 2
FX_DW017_MERC_BUS_ADDR_3	CHAR(35)		Merchant business address 3
FX_DW017_MERC_BUS_ADDR_4	CHAR(35)		Merchant business address 4
FX_DW017_MERC_BUS_ST_CDE	CHAR(40)		Merchant business state code
FX_DW017_MERC_BUS_ZIP	CHAR(10)	✓	Merchant business zip code
FX_DW017_MERC_BUS_TEL	CHAR(15)		Merchant business phone number
FX_DW017_MERC_BUS_URL	CHAR(50)		Merchant business URL
FX_DW017_MERC_BUS_EMAIL	CHAR(50)		Merchant business email
FX_DW017_MERC_PMT_NAME	CHAR(35)		Merchant payment name
FX_DW017_MERC_PMT_ADDR_1	CHAR(35)		Merchant payment address 1



Table Name	DW017		
Table Description	To store all merchant profile information		
Primary Key	PX_DW017_MID		
Index			
Column Name	Column Type	Mandatory	Column Description
FX_DW017_MERC_PMT_ADDR_2	CHAR(35)		Merchant payment address 2
FX_DW017_MERC_PMT_ADDR_3	CHAR(35)		Merchant payment address 3
FX_DW017_MERC_PMT_ADDR_4	CHAR(35)		Merchant payment address 4
FX_DW017_MERC_PMT_ST_CDE	CHAR(40)		Merchant payment state code
FX_DW017_MERC_PMT_ZIP	CHAR(10)		Merchant payment zip code
FX_DW017_MERC_PMT_TEL	CHAR(15)		Merchant payment phone number
FX_DW017_MERC_PMT_EMAIL	CHAR(50)		Merchant payment email
FX_DW017_MERC_CONTC_NAME	CHAR(180)		Merchant contact name
FX_DW017_MERC_CONTC_ADDR_1	CHAR(180)		Merchant contact address 1
FX_DW017_MERC_CONTC_ADDR_2	CHAR(180)		Merchant contact address 2
FX_DW017_MERC_CONTC_ADDR_3	CHAR(180)		Merchant contact address 3
FX_DW017_MERC_CONTC_ADDR_4	CHAR(180)		Merchant payment address 4
FX_DW017_MERC_CONTC_ST_CDE	CHAR(205)		Merchant contact state code
FX_DW017_MERC_CONTC_ZIP	CHAR(55)		Merchant contact zip code

Table Name	DW017		
Table Description	To store all merchant profile information		
Primary Key	PX_DW017_MID		
Index			
Column Name	Column Type	Mandatory	Column Description
FX_DW017_MERC_CONTC_HSE_TEL	CHAR(80)	✓	Merchant contact house phone number
FX_DW017_MERC_CONTC_HP	CHAR(115)	✓	Merchant contact mobile phone number
FX_DW017_MERC_CONTC_FAX	CHAR(80)		Merchant contact fax number
F9_DW017_CNCL_DT	NUMBER(8)		Merchant cancelled date
FX_DW017_CNCL_REAS	CHAR(50)		Cancelled Reason
F9_DW017_PAY_FREQ	NUMBER(3)	✓	Payment Frequency
F9_DW017_SETUP_DT	NUMBER(8)		Setup date
FX_DW017_OTHR_ACQ	CHAR(10)		Other ACQ Number
F9_DW017_LOC_SUB_INDS_CDE	NUMBER(4)	✓	Local Sub-industry Code
FX_DW017_BUS_REGIS_NUM	CHAR(15)		Business registration number
FX_DW017_BRCH_CDE	CHAR(5)	✓	Branch code
FX_DW017_BNK_ACCT_NUM	CHAR(30)	✓	Bank Account number
F9_DW017_FI_CDE	NUMBER(6)		Financial Institution ID
F9_DW017_LOCN	NUMBER(6)		Location

<b>Table Name</b>	DW017		
<b>Table Description</b>	To store all merchant profile information		
<b>Primary Key</b>	PX_DW017_MID		
<b>Index</b>			
Column Name	Column Type	Mandatory	Column Description
F9_DW017_IND_TYP	NUMBER(2)	✓	Industry Type
FX_DW017_CNTRY_CDE	CHAR(3)	✓	Three character code used to differentiate countries
F9_DW017_CNP_ACCT	NUMBER(16)		Phone Service Account No
FX_DW017_BNK_IND	CHAR(1)		Bank indicator
F9_DW017_INSTL_DT	NUMBER(8)		Installment date
FX_DW017_EPP_IND	CHAR(1)		EPP Indicator
F9_DW017_BUS_STRT_TM	NUMBER(4)	✓	Business start time
F9_DW017_BUS_END_TM	NUMBER(4)	✓	Business end time
F9_DW017_CRNCY_CDE	NUMBER(3)	✓	Merchant supported transaction's currency code
F9_DW017_MERC_DLY_LMT	NUMBER(18,2)		Merchant Daily Limit
F9_DW017_MERC_DLY_APV	NUMBER(18,2)		Merchant Daily Approved Amount
FX_DW017_CIF_NO	CHAR(19)		Unique customer ID assigned by the customer repository system (core banking)

## CARDWORKS™ Data Warehouse

### 2.18 DW018 – Financial History Information for All the Accounts Managed By CARDWORKS™ (Exclude the Debit Account)

Table Name	DW018		
Table Description	To store the financial history information for all the accounts managed by CARDWORKS™ (exclude the debit account)		
Primary Key	P9_DW018_FI, P9_DW018_PRIN_CRN, P9_DW018_LOC_ACCT, P9_DW018_DT_IN_MTH		
Index	Index 1 : P9_DW018_FI, P9_DW018_LOC_ACCT Index 2 : F9_DW018_STMT_DUE_DT		
Column Name	Column Type	Mandatory	Column Description
F9_DW018_UPD_TMS	NUMBER(17)	✓	The date and time when the record is updated by data warehouse program
P9_DW018_FI	NUMBER(6)	✓	The unique identification of the bank
P9_DW018_PRIN_CRN	NUMBER(9)	✓	The unique customer relationship number generated by the system for the principal card
P9_DW018_LOC_ACCT	NUMBER(12)	✓	The account number of the cardholder
P9_DW018_DT_IN_MTH	NUMBER(6)	✓	The statement month of the cardholder's financial image
FX_DW018_LOC_STAT	CHAR(1)	✓	The current account status "N" – New and non-activated account "G" – Good Account "P" – Non-performance loan/facility "C" – Cancelled Account "W" – Written off account

Table Name	DW018		
Table Description	To store the financial history information for all the accounts managed by CARDWORKS™ (exclude the debit account)		
Primary Key	P9_DW018_FI, P9_DW018_PRIN_CRN, P9_DW018_LOC_ACCT, P9_DW018_DT_IN_MTH		
Index	Index 1 : P9_DW018_FI, P9_DW018_LOC_ACCT Index 2 : F9_DW018_STMT_DUE_DT		
Column Name	Column Type	Mandatory	Column Description
			"S" – Cancelled and fully settled account
F9_DW018_LOC_STAT_DT	NUMBER(8)	✓	The date when the account status is changed
F9_DW018_LOC_LMT	NUMBER(10)	✓	The credit limit of the account
F9_DW018_CHRG_ACCT_LMT	NUMBER(10)		The additional charge account limit granted to the account
F9_DW018_SPCL_LMT	NUMBER(10)		The special account limit granted to the account
F9_DW018_SPCL_LMT_EXPI_DT	NUMBER(8)		The expiry date of the special limit granted to the account
FX_DW018_SPCL_REAS_CDE	CHAR(1)		The reason to grant the special limit to the account
F9_DW018_CYCC_DAY	NUMBER(2)	Only mandatory for non-debit account	The billing cycle day of the account where system will calculate billing payment
F9_DW018_OPEN_BAL	NUMBER(18,2)		Bring forward balance from previous month and must be left padded with leading zeroes. A +/- sign in front will indicate whether the

Table Name	DW018		
Table Description	To store the financial history information for all the accounts managed by CARDWORKS™ (exclude the debit account)		
Primary Key	P9_DW018_FI, P9_DW018_PRIN_CRN, P9_DW018_LOC_ACCT, P9_DW018_DT_IN_MTH		
Index	Index 1 : P9_DW018_FI, P9_DW018_LOC_ACCT Index 2 : F9_DW018_STMT_DUE_DT		
Column Name	Column Type	Mandatory	Column Description
			amount is positive or negative
F9_DW018_DB_AMT	NUMBER(18,2)		Total debit amount and must be left pad with leading zeroes. A +/- sign in front will indicating whether the amount is positive or negative
F9_DW018_CR_AMT	NUMBER(18,2)		Total credit amount and must be left pad with leading zeroes. A +/- sign in front will indicating whether the amount is positive or negative
F9_DW018_CLO_BAL	NUMBER(18,2)		Current closing of the account and must be left pad with leading zeroes. A +/- sign in front will indicating whether the amount is positive or negative
FX_DW018_STOP_STMT_FLG	CHAR(1)		Indicator to indicator whether to stop statement generation:  'Y' – Stop statement generation 'N' – Statement generation as normal

Table Name	DW018		
Table Description	To store the financial history information for all the accounts managed by CARDWORKS™ (exclude the debit account)		
Primary Key	P9_DW018_FI, P9_DW018_PRIN_CRN, P9_DW018_LOC_ACCT, P9_DW018_DT_IN_MTH		
Index	Index 1 : P9_DW018_FI, P9_DW018_LOC_ACCT Index 2 : F9_DW018_STMT_DUE_DT		
Column Name	Column Type	Mandatory	Column Description
F9_DW018_CMJR	NUMBER(18,2)		Cumulative minimum repayment of the account and must be left pad with leading zeroes. A +/- sign in front will indicating whether the amount is positive or negative
F9_DW018_STMT_DUE_DT	NUMBER(8)		The due date to payment the bill
F9_DW018_CURR_DPD	NUMBER(3)		No of days the account has been overdue
FX_DW018_COLL_BRCH_CDE	CHAR(5)		The branch of the bank to perform the collection
FX_DW018_LEG_CDE	CHAR(4)		Legal action code has been taken if any
F9_DW018_LEG_DT	NUMBER(8)		The date when the legal action is taken
F9_DW018_ACCR_CSH_INT	NUMBER(16,4)		Accrue cash advance interest/profit to the account
F9_DW018_ACCR_RTL_INT	NUMBER(16,4)		Accrue retail advance interest/profit to the account
F9_DW018_LOC_BAL	NUMBER(18,2)		The account remaining balance after deduct the outstanding amount
F9_DW018_CNCL_DT	NUMBER(8)		The date when the account is cancelled

Table Name	DW018		
Table Description	To store the financial history information for all the accounts managed by CARDWORKS™ (exclude the debit account)		
Primary Key	P9_DW018_FI, P9_DW018_PRIN_CRN, P9_DW018_LOC_ACCT, P9_DW018_DT_IN_MTH		
Index	Index 1 : P9_DW018_FI, P9_DW018_LOC_ACCT Index 2 : F9_DW018_STMT_DUE_DT		
Column Name	Column Type	Mandatory	Column Description
FX_DW018_CLS	CHAR(1)		Indicate the status of the account
FX_DW018_LOC	CHAR(1)		"E" – RETURNED CARD (CANCEL) "TR" – REGRADED/TRANSFERED "VE" – VOLUNTARY CANCELLATION, A/C CLOSED
F9_DW018_PMT_AMT	NUMBER(18,2)		The last payment amount



**2.19 DW019 – GL Mapping Configuration**

Table Name	DW019		
Table Description	To store the GL mapping configuration		
Primary Key	P9_DW019_FI, PX_DW019_GL_TYP, P9_DW019_TXN_CDE, PX_DW019_TYP_OF_CRD, PX_DW019_CRD_BRN, PX_DW019_TID, P9_DW019_CRNCY_CDE, PX_DW019_CR_ACQISS_IND, PX_DW019_DB_ACQISS_IND, PX_DW019_CR_GL_ID, PX_DW019_DB_GL_ID		
Index			
Column Name	Column Type	Mandatory	Column Description
F9_DW019_UPD_TMS	NUMBER(17)	✓	The date and time when the record is updated by data warehouse program
P9_DW019_FI	NUMBER(6)	✓	The unique identification of the bank
PX_DW019_GL_TYP	CHAR(1)	✓	The type of general ledger “A” – ATM “C” – Card Member “E” – EDC
P9_DW019_TXN_CDE	NUMBER(4)	✓	The general ledger transaction code
PX_DW019_TYP_OF_CRD	CHAR(2)	✓	The type of card “**” – All type of cards “1” – Credit card

Table Name	DW019		
Table Description	To store the GL mapping configuration		
Primary Key	P9_DW019_FI, PX_DW019_GL_TYP, P9_DW019_TXN_CDE, PX_DW019_TYP_OF_CRD, PX_DW019_CRD_BRN, PX_DW019_TID, P9_DW019_CRNCY_CDE, PX_DW019_CR_ACQISS_IND, PX_DW019_DB_ACQISS_IND, PX_DW019_CR_GL_ID, PX_DW019_DB_GL_ID		
Index			
Column Name	Column Type	Mandatory	Column Description
			“0” – Debit card “-1” – Prepaid Card
PX_DW019_CRD_BRN	CHAR(2)	✓	The brand of the card “LC” – Local card “VS” – Visa card “MC” - MasterCard “
PX_DW019_TID	CHAR(8)	✓	Identifier of the POS/ATM
P9_DW019_CRNCY_CDE	NUMBER(3)	✓	The currency code of the transaction amount
PX_DW019_CR_ACQISS_IND	CHAR(1)	✓	Indicator of credit ISS/ACQ ISS – Issuer ACQ – Acquirer
PX_DW019_DB_ACQISS_IND	CHAR(1)	✓	Indicator of debit ISS/ACQ ISS – Issuer

Table Name	DW019		
Table Description	To store the GL mapping configuration		
Primary Key	P9_DW019_FI, PX_DW019_GL_TYP, P9_DW019_TXN_CDE, PX_DW019_TYP_OF_CRD, PX_DW019_CRD_BRN, PX_DW019_TID, P9_DW019_CRNCY_CDE, PX_DW019_CR_ACQISS_IND, PX_DW019_DB_ACQISS_IND, PX_DW019_CR_GL_ID, PX_DW019_DB_GL_ID		
Index			
Column Name	Column Type	Mandatory	Column Description
			ACQ – Acquirer
PX_DW019_CR_GL_ID	CHAR(40)	✓	The credit general ledger account number
PX_DW019_DB_GL_ID	CHAR(40)	✓	The debit general ledger account number

**CARDWORKS™ Data Warehouse****2.20 DW020 – Business Date**

<b>Table Name</b>	DW020		
<b>Table Description</b>	To store the business date		
<b>Primary Key</b>	P9_DW020_FI		
<b>Index</b>			
<b>Column Name</b>	<b>Column Type</b>	<b>Mandatory</b>	<b>Column Description</b>
F9_DW020_UPD_TMS	NUMBER(17)	✓	The date and time when the record is updated by data warehouse program
P9_DW020_FI	NUMBER(6)	✓	The unique identification of the bank
F9_DW020_BUS_DT	NUMBER(8)	✓	The business date of the data image
F9_DW020_UPD_TM	NUMBER(6)	✓	The update time of the business date

**2.21 DW021 – Collateral Information**

<b>Table Name</b>	DW021		
<b>Table Description</b>	To store the Collateral Information		
<b>Primary Key</b>	P9_DW021_FI, P9_DW021_PRO_NO, PX_DW021_CIF, PX_DW021_COLTL_ID, PX_DW021_PAN		
<b>Index</b>			
<b>Column Name</b>	<b>Column Type</b>	<b>Mandatory</b>	<b>Column Description</b>
F9_DW021_UPD_TMS	NUMBER(17)	✓	The date and time when the record is updated by data warehouse program
P9_DW021_FI	NUMBER(6)	✓	The unique identification of the bank
P9_DW021_PRO_NO	NUMBER(8)	✓	The unique processing number generated by system when the application is inserted into system
PX_DW021_CIF	CHAR(19)	✓	The application's unique customer ID assigned by the customer repository system (core banking)
PX_DW021_COLTL_ID	CHAR(12)	✓	The unique no generated to identify the collateral
PX_DW021_PAN	CHAR(19)	✓	The applicant's own card number. Only generated when the card application is approved
FX_DW021_CRD_PGM	CHAR(6)	✓	The card type/program applied by the applicant
F9_DW021_COLTL_SEQ	NUMBER(6)	✓	The sequence of collateral
FX_DW021_COLTL_TYP	CHAR(2)	✓	The type of collateral

Table Name	DW021		
Table Description	To store the Collateral Information		
Primary Key	P9_DW021_FI, P9_DW021_PRO_NO, PX_DW021_CIF, PX_DW021_COLTL_ID, PX_DW021_PAN		
Index			
Column Name	Column Type	Mandatory	Column Description
F9_DW021_APPRS_VAL	NUMBER(18,2)	✓	The appraisal value of the collateral
F9_DW021_CRD_LOAN_VAL	NUMBER(18,2)	✓	Card loan value assigned according this collateral
F9_DW021_CRNCY_CODE	NUMBER(3)	✓	The currency code of the collateral value

**CARDWORKS™ Data Warehouse****2.22 DW022 – Branch Information**

<b>Table Name</b>	DW022		
<b>Table Description</b>	To store the branch information		
<b>Primary Key</b>	P9_DW022_FI, PX_DW022_BRCH_CDE		
<b>Index</b>			
<b>Column Name</b>	<b>Column Type</b>	<b>Mandatory</b>	<b>Column Description</b>
F9_DW022_UPD_TMS	NUMBER(17)	✓	The date and time when the record is updated by data warehouse program
P9_DW022_FI	NUMBER(6)	✓	The unique identification of the bank
PX_DW022_BRCH_CDE	CHAR(5)	✓	The unique code to identify the branch
FX_DW022_BRCH_NAME	CHAR(50)	✓	The name of the branch
FX_DW022_ST_CDE	CHAR(2)	✓	Unique code to identify the state

**2.23 DW023 – Card Memo Message**

<b>Table Name</b>	DW023		
<b>Table Description</b>	To store the card memo message information		
<b>Primary Key</b>	P9_DW023_FI, PX_DW023_PAN		
<b>Index</b>			
<b>Column Name</b>	<b>Column Type</b>	<b>Mandatory</b>	<b>Column Description</b>
F9_DW023_UPD_TMS	NUMBER(17)	✓	The date and time when the record is updated by data warehouse program
P9_DW023_FI	NUMBER(6)	✓	The unique identification of the bank
PX_DW023_PAN	CHAR(19)	✓	The encrypted card number.
F9_DW023_CAP_DT	NUMBER(8)	✓	The captured date of card memo message
FX_DW023_MSG_STAT	CHAR(2)	✓	Message status of card memo message: NON-NEGATIVE – Positive CMM, do not block transaction. Normally used for info/memo to the card issuer. DC – Decline All Changes PB – Pick Up Chip PO – Block Card – PIN Over Attempt PU – Pick Up Card
FX_DW023_REAS_CDE	CHAR(2)	✓	Reason Code for card memo message:



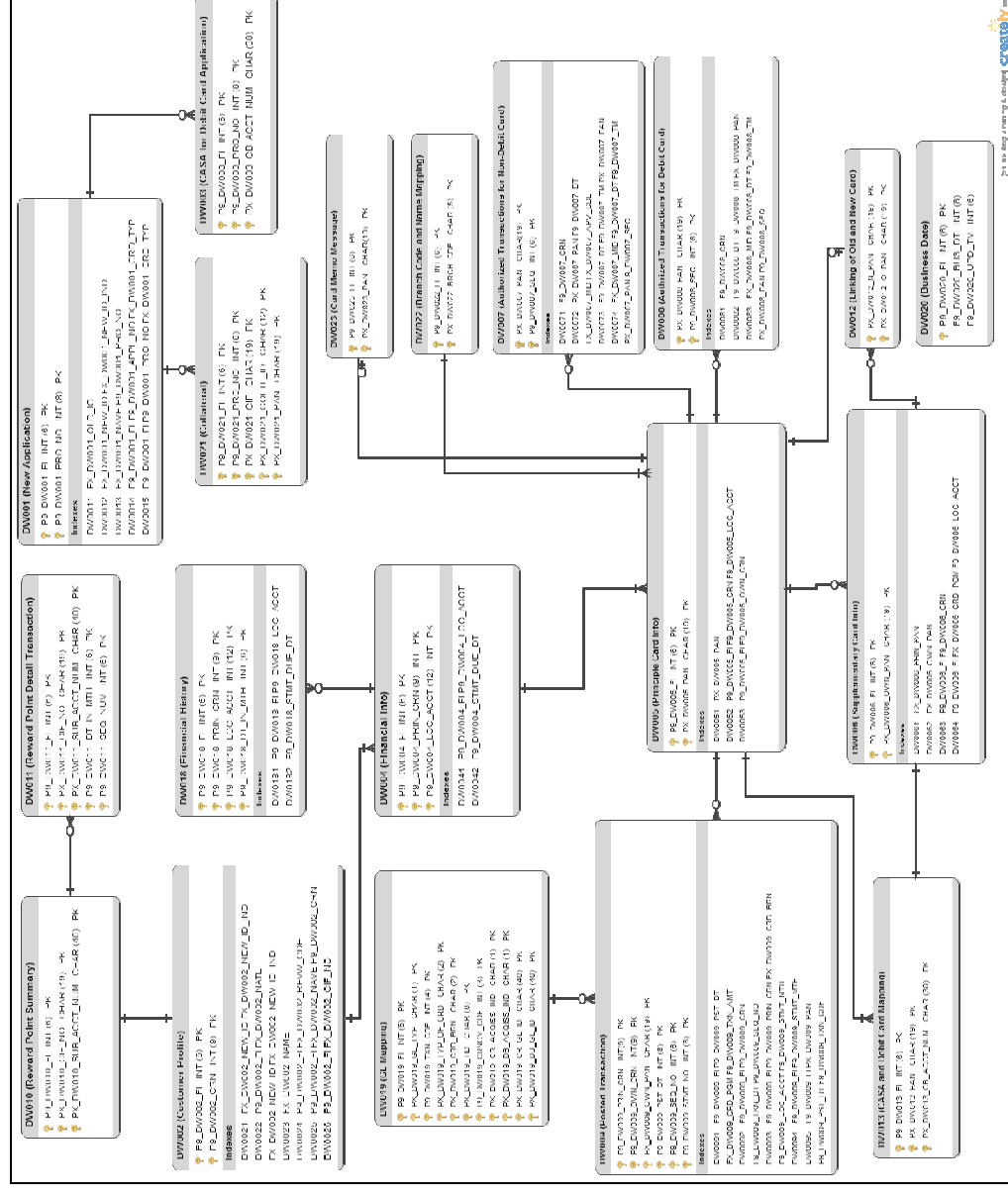
<b>Table Name</b>	DW023		
<b>Table Description</b>	To store the card memo message information		
<b>Primary Key</b>	P9_DW023_FI, PX_DW023_PAN		
<b>Index</b>			
<b>Column Name</b>	<b>Column Type</b>	<b>Mandatory</b>	<b>Column Description</b>
			AT – ATM Retention
			CF – Counterfeit
			CP – Compromised Purchase Point
			CR – Credit
			EC – Emergency Card
			FR – Fraud
			LC – Lost Card
			OT – Others
			SC – Stolen Card
			TB – Temporary Block
			TR – Travelling
FX_DW023_MSG_DESC	CHAR(160)	✓	The message description for the particular card memo message.
F9_DW023_EXPI_DT	NUMBER(8)	✓	Expiry date for the particular card memo message.
FX_DW023_CR_USR	CHAR(8)	✓	The user id captured this card memo message

**2.24 DW024 – Financial Parameters**

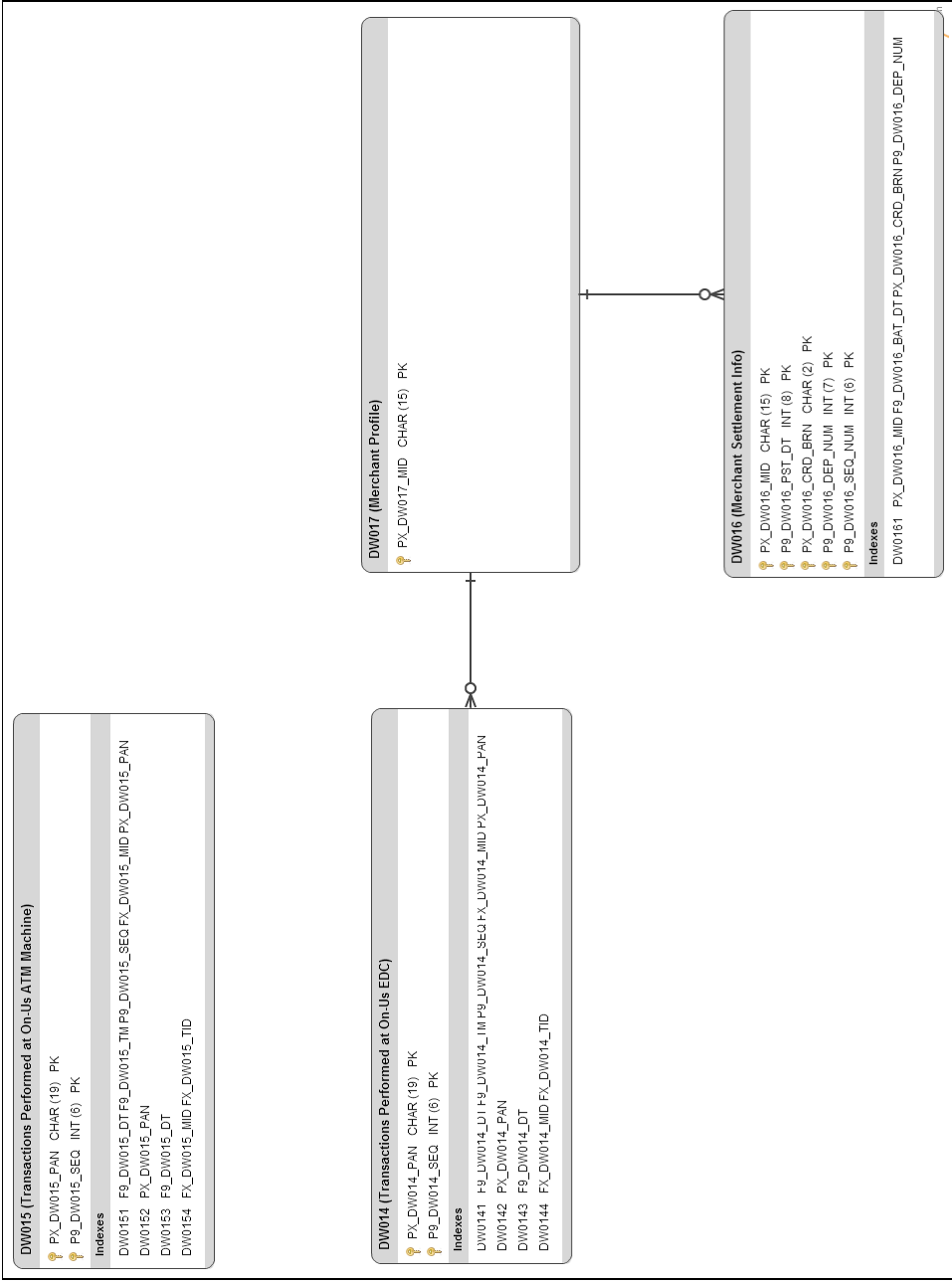
<b>Table Name</b>	DW024		
<b>Table Description</b>	To store the financial parameters information		
<b>Primary Key</b>	P9_DW024_FI, P9_DW024_ACCT_PRV, PX_DW024_SCHM_CDE		
<b>Index</b>			
<b>Column Name</b>	<b>Column Type</b>	<b>Mandatory</b>	<b>Column Description</b>
F9_DW024_UPD_TMS	NUMBER(17)	✓	The date and time when the record is updated by data warehouse program
P9_DW024_FI	NUMBER(6)	✓	The unique identification of the bank
P9_DW024_ACCT_PRV	NUMBER(1)	✓	Account type: 2 – ATM Card Account Provider 3 – Local Credit Card Account Provider 5 – Prepaid Card Account Provider 8 – MasterCard/VISA Credit Card Account Provider
PX_DW024_SCHM_CDE	CHAR(6)	✓	Scheme code associate with the financial charges
F9_DW024_CAV_INT_PCT	NUMBER(5,2)	✓	Interest rate charged to the cash advance amount
F9_DW024_RTL_INT_PCT	NUMBER(5,2)	✓	Interest rate charges to the outstanding amount
F9_DW024_MIN_INT_CHRG	NUMBER(18,2)	✓	A minimum interest charge to the retail purchases transaction.
F9_DW024_MIN_OS_CHRG_INT	NUMBER(18,2)	✓	Minimum outstanding amount to charge interest



### 3.0 ENTITY RELATIONSHIP



CARDWORKS™ Data Warehouse



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