

Water Meter Reading

account_master	Unique Account for every home, Multiple homes can belong to one Customer
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Field_name	Description	Type	Constraints
account_m_acno	Water Registration Number	int()	Primary_key Unique
account_m_nid	Thai National Id from Customer_master table, many account can have single customer	nt()	foreign_key
account_m_addr	Home address belongs to account no	varchar(250)	not_null
account_m_phno	Phone Number registered with the account no and to send OTP	varchar(15)	not_null
account_m_email	Email Address - optional	varchar(40)	
account_m_log	Geolocation Longitude of the house,	decimal	not_null
account_m_lat	Geolocation Latitude of the house,	decimal	not_null
account_m_datetime	Date and time of Creation	timestamp	not_null

customer_master	Details of Customer ,Every Customer has a Permanent Nation Id, and one customer can have multiple House
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Field_name	Description	Type	Constraints
customer_m_nid	Customer Thai Nation ID	int()	Primary_key Unique
customer_m_fname	Customer First Name	varchar(40)	not_null
customer_m_lname	Customer last Name	varchar(40)	not_null
customer_m_padd	Permanent Address of Customer	varchar(250)	not_null
customer_m_datetime	Date and Time of record Creation	timestamp	not_null

invoice	Account login is connected to one account so its one to one relationship
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Field_name	Description	Type	Constraints
invoice_invno	Unique Invoice Number Generated as per the Billing Cycle	int()	Primary_key Unique
invoice_txnid	Transaction details from water transaction table	char(40)	foreign_key
invoice_month_year	Year and moth of Invoice Generated	date	not_null
invoice_amount	Amout in Thai Baht	decimal	not_null
invoice_route	route	char(40)	not_null
invoice_datetime	Date and time record created	timestamp	

account_login	Account login is connected to one account so its one to one relationship
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Field_name	Description	Type	Constraints
account_l_acno	Water Registration Number, same as account number one login name is directly connected to one account no	int()	Primary_key Unique
account_l_logname	Login name used to login to Application	varchar(40)	not_null
account_l_logpass	Password for the Application	varchar(40)	not_null
account_l_fattempt	Failed attempt of logins	int	not_null
account_l_datetime	Date and Time of record Creation	timestamp	not_null

water_txns	Meter Reading table , every Home have a meter and one customer sends the reading meter multiple times,
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Field_name	Description	Type	Constraints
water_t_txnid	Water Meter Reading Unique number	int()	Primary_key Unique
water_t_acno	Water registration number from Account Master table one Account number can have multiple reading	nt()	foreign_key
water_t_reading	Meter Reading	int	not_null
water_t_crdatetime	Date and time of reading	timestamp	not_null
water_t_des	Description or comment	varchar(40)	
water_t_mno	Meter Number	varchar(40)	not_null
water_t_datetime	Date and time of transaction	datetime	not_null

