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create schema Bill_Management;
set search_path to Bill_Management;

create table customer(cust_id int PRIMARY KEY,
cust_name varchar(20),
address_line_1 varchar(30),
area varchar(10),
city varchar(10),
state varchar(20),
pin_code int);

create table phone_no(cust_id int,
phone_no bigint,
FOREIGN KEY (cust_id) REFERENCES customer(cust_id) ON DELETE CASCADE ON
UPDATE CASCADE);

create table electricity_board(eb_id int PRIMARY KEY,
eb_name varchar(20),
status varchar(10),
note varchar(500));

create table tariff(tariff_id int PRIMARY KEY,
eb_id int,
tariff_type varchar(20),
tariff_description varchar(500),
FOREIGN KEY (eb_id) REFERENCES electricity_board(eb_id) ON DELETE CASCADE
ON UPDATE CASCADE);

create table account(account_id int PRIMARY KEY,
acc_no bigint Unique,
cust_id int,
eb_id int,
rr_number varchar(10),
email_id varchar(30),
password varchar(20),
FOREIGN KEY (cust_id) REFERENCES customer(cust_id) ON DELETE CASCADE ON
UPDATE CASCADE,
FOREIGN KEY (eb_id) REFERENCES electricity_board(eb_id) ON DELETE CASCADE
ON UPDATE CASCADE);

create table department(dept_no int PRIMARY KEY,
eb_id int,
dept_name varchar(20));

create table employee(emp_id Int PRIMARY KEY,
eb_id int,
dept_no int,
emp_name varchar(50),
emp_post varchar(20),
FOREIGN KEY (eb_id) REFERENCES electricity_board(eb_id) ON DELETE CASCADE
ON UPDATE CASCADE,
FOREIGN KEY (dept_no) REFERENCES department(dept_no) ON DELETE CASCADE ON
UPDATE CASCADE);

create table invoice(invoice_id int PRIMARY KEY,
emp_id int,
account_id int,
reading_date date,
previous_reading decimal(8,2),
present_reading decimal(8,2),

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consumption_unit decimal(5,2),
due_date date,
due_charges decimal(5,2),
fixed_charge decimal(5,2),
energy_charge decimal(8,2),
tax decimal(8,2),
previous_balance decimal(5,2),
bill_amount decimal(8,2),
FOREIGN KEY (emp_id) REFERENCES employee(emp_id) ON DELETE CASCADE ON
UPDATE CASCADE,
FOREIGN KEY (account_id) REFERENCES account(account_id) ON DELETE CASCADE
ON UPDATE CASCADE);

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create table payment(trans_id int PRIMARY KEY,
invoice_id int,
account_id int,
payment_mode varchar(20),
payment_date date,
payment_time time,
bill_amount decimal(8,2),
paid_amount decimal(8,2),
excess_paid decimal(8,2),
status varchar(20),
FOREIGN KEY (invoice_id) REFERENCES invoice(invoice_id) ON DELETE CASCADE
ON UPDATE CASCADE,
FOREIGN KEY (account_id) REFERENCES account(account_id) ON DELETE CASCADE
ON UPDATE CASCADE);

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create table feedback(feedback_id int PRIMARY KEY,
feedback_date date,
account_id int,
description varchar(50),
type varchar(20),
FOREIGN KEY (account_id) REFERENCES account(account_id) ON DELETE CASCADE
ON UPDATE CASCADE);

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create table maintenance(maintenance_id int PRIMARY KEY,
emp_id int,
account_id int,
m_created_date date,
m_resolved_date date,
maintenance_status varchar(20),
FOREIGN KEY (emp_id) REFERENCES employee(emp_id) ON DELETE CASCADE ON
UPDATE CASCADE,
FOREIGN KEY (account_id) REFERENCES account(account_id) ON DELETE CASCADE
ON UPDATE CASCADE);

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