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CREATE TABLE warehousemanagement.tbl_address
(
    address_id character(10) COLLATE pg_catalog."default" NOT NULL,
    address character(200) COLLATE pg_catalog."default" NOT NULL,
    customer_city character(20) COLLATE pg_catalog."default" NOT NULL,
    customer_state character(20) COLLATE pg_catalog."default" NOT NULL,
    pincode character(6) COLLATE pg_catalog."default" NOT NULL,
    customer_contactno character(12) COLLATE pg_catalog."default" NOT NULL,
    CONSTRAINT tbl_address_pkey PRIMARY KEY (address_id),
    CONSTRAINT tbl_address_customer_contactno_fkey FOREIGN KEY (customer_contactno)
        REFERENCES warehousemanagement.tbl_customer (customer_contactno) MATCH SIMPLE
        ON UPDATE CASCADE
        ON DELETE CASCADE,
    CONSTRAINT tbl_address_pincode_check CHECK (char_length(pincode) = 6)
)
WITH (
    OIDS = FALSE
)
TABLESPACE pg_default;

ALTER TABLE warehousemanagement.tbl_address
    OWNER to postgres;

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CREATE TABLE warehousemanagement.tbl_department
(
    dept_id character(5) COLLATE pg_catalog."default" NOT NULL,
    dept_name character(20) COLLATE pg_catalog."default" NOT NULL,
    manger_contact character(12) COLLATE pg_catalog."default",
    CONSTRAINT tbl_department_pkey PRIMARY KEY (dept_id),
    CONSTRAINT tbl_department_manger_contact_fkey FOREIGN KEY (manger_contact)
        REFERENCES warehousemanagement.tbl_employee (emp_contactno) MATCH SIMPLE
        ON UPDATE NO ACTION
        ON DELETE NO ACTION
)
WITH (
    OIDS = FALSE
)
TABLESPACE pg_default;

ALTER TABLE warehousemanagement.tbl_department
    OWNER to postgres;

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CREATE TABLE warehousemanagement.tbl_customer
(
    customer_contactno character(12) COLLATE pg_catalog."default" NOT NULL,
    customer_fname character(50) COLLATE pg_catalog."default" NOT NULL,
    customer_lname character(50) COLLATE pg_catalog."default" NOT NULL,
    customer_dob date NOT NULL,
    customer_email character(30) COLLATE pg_catalog."default" NOT NULL,
    CONSTRAINT tbl_customer_pkey PRIMARY KEY (customer_contactno),
    CONSTRAINT "Email_Constraint" CHECK (customer_email ~~ '%__@__%'::text) NOT VALID
)
WITH (
    OIDS = FALSE
)
TABLESPACE pg_default;

ALTER TABLE warehousemanagement.tbl_customer
    OWNER to postgres;

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CREATE TABLE warehousemanagement.tbl_employee
(
    emp_contactno character(12) COLLATE pg_catalog."default" NOT NULL,
    emp_name character(20) COLLATE pg_catalog."default" NOT NULL,
    emp_dob date NOT NULL,
    emp_gender character(2) COLLATE pg_catalog."default" NOT NULL,
    emp_hiredate date NOT NULL,
    emp_aadharno character(12) COLLATE pg_catalog."default" NOT NULL,
    department_id character(10) COLLATE pg_catalog."default",
    CONSTRAINT tbl_employee_pkey PRIMARY KEY (emp_contactno),
    CONSTRAINT tbl_employee_emp_aadharno_key UNIQUE (emp_aadharno)
,
    CONSTRAINT tbl_employee_department_id_fkey FOREIGN KEY (department_id)
        REFERENCES warehousemanagement.tbl_department (dept_id) MATCH SIMPLE
        ON UPDATE CASCADE
        ON DELETE SET NULL,
    CONSTRAINT tbl_employee_emp_gender_check CHECK (emp_gender = ANY (ARRAY['m'::bpchar, 'f'::bpchar])),
    CONSTRAINT tbl_employee_emp_aadharno_check CHECK (char_length(emp_aadharno) = 12) NOT VALID
)
WITH (
    OIDS = FALSE
)
TABLESPACE pg_default;

ALTER TABLE warehousemanagement.tbl_employee
    OWNER to postgres;

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CREATE TABLE warehousemanagement.tbl_location
(
    supplier_gstno character(15) COLLATE pg_catalog."default" NOT NULL,
    location character(200) COLLATE pg_catalog."default" NOT NULL
)
WITH (
    OIDS = FALSE
)
TABLESPACE pg_default;

ALTER TABLE warehousemanagement.tbl_location
    OWNER to postgres;

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CREATE TABLE warehousemanagement.tbl_paymentmethod
(
    paymentmethod_id character(10) COLLATE pg_catalog."default" NOT NULL,
    payment_method character(50) COLLATE pg_catalog."default" NOT NULL,
    service_charge_percentage numeric(5,0) NOT NULL,
    CONSTRAINT tbl_paymentmethod_pkey PRIMARY KEY (paymentmethod_id),
    CONSTRAINT tbl_paymentmethod_payment_method_key UNIQUE (payment_method)
,
    CONSTRAINT tbl_paymentmethod_service_charge_percentage_check CHECK (service_charge_percentage > '-1')
)
WITH (
    OIDS = FALSE
)
TABLESPACE pg_default;

ALTER TABLE warehousemanagement.tbl_paymentmethod
    OWNER to postgres;

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CREATE TABLE warehousemanagement.tbl_product
(
    product_id character(10) COLLATE pg_catalog."default" NOT NULL,
    product_category character(50) COLLATE pg_catalog."default" NOT NULL,
    product_size character(20) COLLATE pg_catalog."default" NOT NULL,
    product_brand character(20) COLLATE pg_catalog."default" NOT NULL,
    product_name character(20) COLLATE pg_catalog."default" NOT NULL,
    product_quality character(20) COLLATE pg_catalog."default" NOT NULL,
    product_quantity numeric(20,0) NOT NULL,
    product_color character(20) COLLATE pg_catalog."default" NOT NULL,
    CONSTRAINT tbl_product_pkey PRIMARY KEY (product_id),
    CONSTRAINT tbl_product_product_quantity_check CHECK (product_quantity > '-1'::integer::numeric),
    CONSTRAINT tbl_product_product_size_check CHECK (product_size = ANY (ARRAY['S'::bpchar, 'M'::bpchar, 'L'::bpch
)
WITH (
    OIDS = FALSE
)
TABLESPACE pg_default;

ALTER TABLE warehousemanagement.tbl_product
    OWNER to postgres;

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CREATE TABLE warehousemanagement.tbl_purchase
(
    purchase_id character(10) COLLATE pg_catalog."default" NOT NULL,
    status character(20) COLLATE pg_catalog."default" NOT NULL,
    amount_due numeric(10,0),
    total_cost numeric(10,0) NOT NULL,
    quantity numeric(10,0) NOT NULL,
    purchase_date date NOT NULL,
    unit_price numeric(10,0) NOT NULL,
    supplier_gstno character(15) COLLATE pg_catalog."default" NOT NULL,
    emp_contactno character(12) COLLATE pg_catalog."default" NOT NULL,
    product_id character(10) COLLATE pg_catalog."default" NOT NULL,
    CONSTRAINT tbl_purchase_pkey PRIMARY KEY (purchase_id),
    CONSTRAINT tbl_purchase_emp_contactno_fkey FOREIGN KEY (emp_contactno)
        REFERENCES warehousemanagement.tbl_employee (emp_contactno) MATCH SIMPLE
        ON UPDATE CASCADE
        ON DELETE CASCADE,
    CONSTRAINT tbl_purchase_product_id_fkey FOREIGN KEY (product_id)
        REFERENCES warehousemanagement.tbl_product (product_id) MATCH SIMPLE
        ON UPDATE CASCADE
        ON DELETE CASCADE,
    CONSTRAINT tbl_purchase_supplier_gstno_fkey FOREIGN KEY (supplier_gstno)
        REFERENCES warehousemanagement.tbl_supplier (supplier_gstno) MATCH SIMPLE
        ON UPDATE CASCADE
        ON DELETE CASCADE,
    CONSTRAINT tbl_purchase_quantity_check CHECK (quantity > 0::numeric),
    CONSTRAINT tbl_purchase_total_cost_check CHECK (total_cost > 0::numeric),

    CONSTRAINT tbl_purchase_amount_due_check1 CHECK (amount_due > '-1'::integer::numeric) NOT VALID,
    CONSTRAINT tbl_purchase_supplier_gstno_check CHECK (char_length(supplier_gstno) = 15) NOT VALID,
    CONSTRAINT tbl_purchase_unit_price_check CHECK (unit_price > 0::numeric) NOT VALID
)
WITH (
    OIDS = FALSE
)
TABLESPACE pg_default;

ALTER TABLE warehousemanagement.tbl_purchase
    OWNER to postgres;

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CREATE TABLE warehousemanagement.tbl_purchase_payment
(
    payment_id character(10) COLLATE pg_catalog."default" NOT NULL,
    amount numeric(10,0) NOT NULL,
    date_pay date NOT NULL,
    card_number character(16) COLLATE pg_catalog."default",
    cc_exp_date character(20) COLLATE pg_catalog."default",
    cardholder_name character(20) COLLATE pg_catalog."default",
    paymentmethod_id character(10) COLLATE pg_catalog."default" NOT NULL,
    purchase_id character(10) COLLATE pg_catalog."default" NOT NULL,
    CONSTRAINT tbl_purchase_payment_pkey PRIMARY KEY (payment_id),
    CONSTRAINT tbl_purchase_payment_paymentmethod_id_fkey FOREIGN KEY (paymentmethod_id)
        REFERENCES warehousemanagement.tbl_paymentmethod (paymentmethod_id) MATCH SIMPLE
        ON UPDATE NO ACTION
        ON DELETE NO ACTION,
    CONSTRAINT tbl_purchase_payment_purchase_id_fkey FOREIGN KEY (purchase_id)
        REFERENCES warehousemanagement.tbl_purchase (purchase_id) MATCH SIMPLE
        ON UPDATE NO ACTION
        ON DELETE NO ACTION
)
WITH (
    OIDS = FALSE
)
TABLESPACE pg_default;

ALTER TABLE warehousemanagement.tbl_purchase_payment
    OWNER to postgres;

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CREATE TABLE warehousemanagement.tbl_salary
(
    emp_contactno character(12) COLLATE pg_catalog."default" NOT NULL,
    to_date date NOT NULL,
    emp_salary numeric(10,0) NOT NULL,
    emp_bonus numeric(10,0),
    from_date date NOT NULL,
    emp_totalsalary numeric NOT NULL,
    CONSTRAINT tbl_salary_emp_contactno_fkey FOREIGN KEY (emp_contactno)
        REFERENCES warehousemanagement.tbl_employee (emp_contactno) MATCH SIMPLE
        ON UPDATE CASCADE
        ON DELETE CASCADE,
    CONSTRAINT tbl_salary_emp_salary_check CHECK (emp_salary > 0::numeric),
    CONSTRAINT tbl_salary_check CHECK (from_date > to_date) NOT VALID
)
WITH (
    OIDS = FALSE
)
TABLESPACE pg_default;

ALTER TABLE warehousemanagement.tbl_salary
    OWNER to postgres;

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CREATE TABLE warehousemanagement.tbl_sales
(
    sales_id character(10) COLLATE pg_catalog."default" NOT NULL,
    order_date date NOT NULL,
    sales_quantity numeric(10,0) NOT NULL,
    ship_date date,
    unit_price numeric(10,0) NOT NULL,
    sales_status character(20) COLLATE pg_catalog."default",
    sales_discount numeric(10,0),
    total_amount numeric(10,0),
    emp_contactno character(12) COLLATE pg_catalog."default" NOT NULL,
    product_id character(10) COLLATE pg_catalog."default" NOT NULL,
    customer_addressid character(10) COLLATE pg_catalog."default" NOT NULL,
    CONSTRAINT tbl_sales_pkey PRIMARY KEY (sales_id),
    CONSTRAINT tbl_sales_customer_addressid_fkey FOREIGN KEY (customer_addressid)
        REFERENCES warehousemanagement.tbl_address (address_id) MATCH SIMPLE
        ON UPDATE NO ACTION
        ON DELETE NO ACTION,
    CONSTRAINT tbl_sales_emp_contactno_fkey FOREIGN KEY (emp_contactno)
        REFERENCES warehousemanagement.tbl_employee (emp_contactno) MATCH SIMPLE
        ON UPDATE NO ACTION
        ON DELETE NO ACTION,
    CONSTRAINT tbl_sales_product_id_fkey FOREIGN KEY (product_id)
        REFERENCES warehousemanagement.tbl_product (product_id) MATCH SIMPLE
        ON UPDATE NO ACTION
        ON DELETE NO ACTION,
    CONSTRAINT tbl_sales_sales_amount_due_check CHECK (total_amount > '-1'::integer::numeric) NOT VALID,

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CONSTRAINT tbl_sales_sales_discount_check CHECK (sales_discount > '-1'::integer::numeric) NOT VALID,
CONSTRAINT tbl_sales_sales_quantity_check CHECK (sales_quantity > 0::numeric) NOT VALID,
CONSTRAINT tbl_sales_unit_price_check CHECK (unit_price > 0::numeric) NOT VALID
)
WITH (
    OIDS = FALSE
)
TABLESPACE pg_default;

ALTER TABLE warehousemanagement.tbl_sales
    OWNER to postgres;

```

```

CREATE TABLE warehousemanagement.tbl_sales_payment
(
    payment_id character(10) COLLATE pg_catalog."default" NOT NULL,
    amount numeric(10,0) NOT NULL,
    date_pay date NOT NULL,
    card_number character(16) COLLATE pg_catalog."default",
    cc_exp_date character(20) COLLATE pg_catalog."default",
    cardholder_name character(20) COLLATE pg_catalog."default",
    paymentmethod_id character(10) COLLATE pg_catalog."default" NOT NULL,
    sales_id character(10) COLLATE pg_catalog."default" NOT NULL,
    CONSTRAINT tbl_payment_paymentmethod_id_fkey FOREIGN KEY (paymentmethod_id)
        REFERENCES warehousemanagement.tbl_paymentmethod (paymentmethod_id) MATCH SIMPLE
        ON UPDATE NO ACTION
        ON DELETE NO ACTION,
    CONSTRAINT tbl_sales_payment_sales_id_fkey FOREIGN KEY (sales_id)
        REFERENCES warehousemanagement.tbl_sales (sales_id) MATCH SIMPLE
        ON UPDATE NO ACTION
        ON DELETE NO ACTION
)
WITH (
    OIDS = FALSE
)
TABLESPACE pg_default;

ALTER TABLE warehousemanagement.tbl_sales_payment
    OWNER to postgres;

```



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CREATE TABLE warehousemanagement.tbl_supplier
(
    supplier_gstno character(15) COLLATE pg_catalog."default" NOT NULL,
    supplier_company_name character(50) COLLATE pg_catalog."default" NOT NULL,
    supplier_contactno character(12) COLLATE pg_catalog."default" NOT NULL,
    supplier_owner_name character(50) COLLATE pg_catalog."default" NOT NULL,
    date_of_collaboration date NOT NULL,
    CONSTRAINT tbl_supplier_pkey PRIMARY KEY (supplier_gstno),
    CONSTRAINT tbl_supplier_supplier_gstno_check CHECK (char_length(supplier_gstno) = 15)
)
WITH (
    OIDS = FALSE
)
TABLESPACE pg_default;

ALTER TABLE warehousemanagement.tbl_supplier
    OWNER to postgres;
```