### BUS\_LOCATION (table)

-- Table: public.bus\_locations

-- DROP TABLE IF EXISTS public.bus\_locations;

CREATE TABLE IF NOT EXISTS public.bus\_locations

(

id integer NOT NULL DEFAULT nextval('bus\_locations\_id\_seq'::regclass),

bus\_id integer NOT NULL,

latitude numeric(9,6) NOT NULL,

longitude numeric(9,6) NOT NULL,

recorded\_at timestamp without time zone DEFAULT CURRENT\_TIMESTAMP,

CONSTRAINT bus\_locations\_pkey PRIMARY KEY (id),

CONSTRAINT bus\_locations\_bus\_id\_fkey FOREIGN KEY (bus\_id)

REFERENCES public.buses (id) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE CASCADE

)

TABLESPACE pg\_default;

ALTER TABLE IF EXISTS public.bus\_locations

OWNER to postgres;

### BUSES

-- Table: public.buses

-- DROP TABLE IF EXISTS public.buses;

CREATE TABLE IF NOT EXISTS public.buses

(

id integer NOT NULL DEFAULT nextval('buses\_id\_seq'::regclass),

bus\_number character varying(100) COLLATE pg\_catalog."default" NOT NULL,

capacity integer NOT NULL,

area character varying(20) COLLATE pg\_catalog."default" NOT NULL,

status character varying(20) COLLATE pg\_catalog."default" DEFAULT 'station'::character varying,

created\_at timestamp without time zone DEFAULT CURRENT\_TIMESTAMP,

driver\_work\_id character varying(255) COLLATE pg\_catalog."default",

CONSTRAINT buses\_pkey PRIMARY KEY (id),

CONSTRAINT buses\_bus\_number\_key UNIQUE (bus\_number),

CONSTRAINT driver\_work\_id\_unique UNIQUE (driver\_work\_id),

CONSTRAINT fk\_driver\_work\_id FOREIGN KEY (driver\_work\_id)

REFERENCES public.users (work\_id) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION,

CONSTRAINT buses\_area\_check CHECK (area::text = ANY (ARRAY['south'::character varying, 'north'::character varying, 'east'::character varying, 'west'::character varying]::text[])),

CONSTRAINT buses\_capacity\_check CHECK (capacity > 0),

CONSTRAINT buses\_status\_check CHECK (status::text = ANY (ARRAY['station'::character varying, 'on\_trip'::character varying, 'maintenance'::character varying]::text[])),

CONSTRAINT chk\_driver\_work\_id\_not\_null CHECK (driver\_work\_id IS NOT NULL)

)

TABLESPACE pg\_default;

ALTER TABLE IF EXISTS public.buses

OWNER to postgres;

### Driver\_trips

-- Table: public.driver\_trips

-- DROP TABLE IF EXISTS public.driver\_trips;

CREATE TABLE IF NOT EXISTS public.driver\_trips

(

id integer NOT NULL DEFAULT nextval('driver\_trips\_id\_seq'::regclass),

driver\_id integer NOT NULL,

trip\_id integer NOT NULL,

passengers\_count integer DEFAULT 0,

salary\_earned numeric(10,2) DEFAULT 0.00,

trip\_date date NOT NULL,

CONSTRAINT driver\_trips\_pkey PRIMARY KEY (id),

CONSTRAINT driver\_trips\_driver\_id\_fkey FOREIGN KEY (driver\_id)

REFERENCES public.users (id) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE CASCADE,

CONSTRAINT driver\_trips\_trip\_id\_fkey FOREIGN KEY (trip\_id)

REFERENCES public.trips (id) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE CASCADE,

CONSTRAINT driver\_trips\_passengers\_count\_check CHECK (passengers\_count >= 0),

CONSTRAINT driver\_trips\_salary\_earned\_check CHECK (salary\_earned >= 0::numeric)

)

TABLESPACE pg\_default;

ALTER TABLE IF EXISTS public.driver\_trips

OWNER to postgres;

### Notification

-- Table: public.notifications

-- DROP TABLE IF EXISTS public.notifications;

CREATE TABLE IF NOT EXISTS public.notifications

(

id integer NOT NULL DEFAULT nextval('notifications\_id\_seq'::regclass),

user\_id integer NOT NULL,

bus\_id integer NOT NULL,

message character varying(255) COLLATE pg\_catalog."default",

sent\_at timestamp without time zone DEFAULT CURRENT\_TIMESTAMP,

lat double precision NOT NULL,

lng double precision NOT NULL,

subscribed\_at timestamp without time zone DEFAULT now(),

is\_active boolean DEFAULT true,

CONSTRAINT notifications\_pkey PRIMARY KEY (id),

CONSTRAINT notifications\_bus\_id\_fkey FOREIGN KEY (bus\_id)

REFERENCES public.buses (id) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE CASCADE,

CONSTRAINT notifications\_user\_id\_fkey FOREIGN KEY (user\_id)

REFERENCES public.users (id) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE CASCADE

)

TABLESPACE pg\_default;

ALTER TABLE IF EXISTS public.notifications

OWNER to postgres;

### Ticket Usage

-- Table: public.tickets

-- DROP TABLE IF EXISTS public.tickets;

CREATE TABLE IF NOT EXISTS public.tickets

(

id integer NOT NULL DEFAULT nextval('tickets\_id\_seq'::regclass),

user\_id integer NOT NULL,

type character varying(20) COLLATE pg\_catalog."default" NOT NULL,

rides\_left integer DEFAULT 0,

qr\_code character varying(255) COLLATE pg\_catalog."default" NOT NULL,

created\_at timestamp without time zone DEFAULT CURRENT\_TIMESTAMP,

price numeric(10,2) NOT NULL DEFAULT 0.00,

model character varying(50) COLLATE pg\_catalog."default" NOT NULL,

CONSTRAINT tickets\_pkey PRIMARY KEY (id),

CONSTRAINT tickets\_user\_id\_fkey FOREIGN KEY (user\_id)

REFERENCES public.users (id) MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE CASCADE,

CONSTRAINT tickets\_model\_check CHECK (model::text = ANY (ARRAY['multi'::character varying, 'single'::character varying, 'package'::character varying, 'cash'::character varying]::text[])),

CONSTRAINT tickets\_rides\_left\_check CHECK (rides\_left >= 0),

CONSTRAINT tickets\_type\_check CHECK (type::text = ANY (ARRAY['full'::character varying, 'half'::character varying]::text[]))

)

TABLESPACE pg\_default;

ALTER TABLE IF EXISTS public.tickets

OWNER to postgres;

### Trips

-- Table: public.trips

-- DROP TABLE IF EXISTS public.trips;

CREATE TABLE IF NOT EXISTS public.trips

(

id integer NOT NULL DEFAULT nextval('trips\_id\_seq'::regclass),

bus\_id integer NOT NULL,

driver\_id character varying(255) COLLATE pg\_catalog."default" NOT NULL,

start\_time timestamp without time zone NOT NULL,

end\_time timestamp without time zone,

passengers\_count integer DEFAULT 0,

route character varying(255) COLLATE pg\_catalog."default" NOT NULL,

status character varying(20) COLLATE pg\_catalog."default" DEFAULT 'scheduled'::character varying,

created\_at timestamp without time zone DEFAULT CURRENT\_TIMESTAMP,

CONSTRAINT trips\_pkey PRIMARY KEY (id),

CONSTRAINT trips\_passengers\_count\_check CHECK (passengers\_count >= 0),

CONSTRAINT trips\_status\_check CHECK (status::text = ANY (ARRAY['scheduled'::character varying, 'ongoing'::character varying, 'completed'::character varying]::text[]))

)

TABLESPACE pg\_default;

ALTER TABLE IF EXISTS public.trips

OWNER to postgres;

### Users

-- Table: public.users

-- DROP TABLE IF EXISTS public.users;

CREATE TABLE IF NOT EXISTS public.users

(

id integer NOT NULL DEFAULT nextval('users\_id\_seq'::regclass),

username character varying(255) COLLATE pg\_catalog."default" NOT NULL,

password character varying(255) COLLATE pg\_catalog."default" NOT NULL,

email character varying(255) COLLATE pg\_catalog."default",

role character varying(20) COLLATE pg\_catalog."default" NOT NULL,

age integer,

created\_at timestamp without time zone DEFAULT CURRENT\_TIMESTAMP,

work\_id character varying(255) COLLATE pg\_catalog."default",

CONSTRAINT users\_pkey PRIMARY KEY (id),

CONSTRAINT unique\_work\_id UNIQUE (work\_id),

CONSTRAINT users\_email\_key UNIQUE (email),

CONSTRAINT chk\_work\_id\_driver\_role CHECK (work\_id IS NULL OR role::text = 'driver'::text),

CONSTRAINT users\_age\_check CHECK (age >= 0),

CONSTRAINT users\_role\_check CHECK (role::text = ANY (ARRAY['passenger'::character varying, 'driver'::character varying, 'administrator'::character varying]::text[]))

)

TABLESPACE pg\_default;

ALTER TABLE IF EXISTS public.users

OWNER to postgres;