```
SET search_path TO railway_db;


CREATE TABLE station
(
    sid integer not null,
    station_latitude numeric,
    waiting_room_availablity boolean,
    name varchar(20) not null,
    food_availablity boolean,

    CONSTRAINT station_pkey PRIMARY KEY (sid)
);
alter table station add column pid integer references passenger(pid) ON DELETE CASCADE ON UPDATE CASC
ADE;
alter table station add column E_ID integer references employee(E_ID ) ON DELETE CASCADE ON UPDATE C
ASCADE;
alter table station add column TRAIN_ID varchar(20) references train(train_id) ON DELETE CASCADE ON
UPD ATE CASCADE;

ALTER TABLE station ADD foreign key (PID)
 REFERENCES passenger(PID);

 ALTER TABLE station ADD foreign key (E_ID )
 references employee(E_ID );

 ALTER TABLE station ADD foreign key (train_id)
 references train(train_id);

-----------------------------------------------------------------

CREATE TABLE passenger
(
    pid integer not null,
    fname varchar(20) not null,
    lname varchar(20) not null,
    age numeric(3),
    gender varchar(1) CHECK(gender IN('M','F','O')),
 gov_id varchar(50) not null,
 dob date,
 mobile_no integer,
    CONSTRAINT passenger_pkey PRIMARY KEY (pid)
);
alter table passenger add constraint NAME unique(fname,lname);

-----------------------------------------------------------------

CREATE TABLE lost_and_found
(
    item_id integer not null,
 ITEM_NAME VARCHAR(100) not null,
 LOCATION VARCHAR(200),
```

```
 STATUS varchar(2) default 'not found' ,
 item_description varchar(100),
 sid integer references station(sid),
    CONSTRAINT lost_and_found_pkey PRIMARY KEY (item_id)
);

ALTER TABLE lost_and_found ADD foreign key (SID)
 REFERENCES station(SID);

----------------------------------------------------------------
CREATE TABLE parcel_service
(
    par_id integer not null,
 sid integer references station(sid),
 source VARCHAR(200),
 destination varchar(20),
    CONSTRAINT parcel_service_pkey PRIMARY KEY (par_id)
);

ALTER TABLE parcel_service ADD foreign key (SID)
 REFERENCES station(SID);

-------------------------------------------------------------------
CREATE TABLE booking_details
(
    pid integer REFERENCES passenger(PID) ON DELETE CASCADE ON UPDATE CASCADE,
 TRAIN_ID varchar(30) references train(train_id) ON DELETE CASCADE ON UPDATE CASCADE,
 dep_time timestamp,
 dep_location VARCHAR(100),
 arrival_location varchar(100),
 availability varchar(3) CHECK(availability IN('yes','no')),
 sid integer references station(sid) ON DELETE CASCADE ON UPDATE CASCADE,
);

ALTER TABLE booking_details ADD foreign key (SID)
 REFERENCES station(SID);

----------------------------------------------------------------------
CREATE TABLE transaction_details
(
    TRA_ID integer not null,
  pid integer REFERENCES passenger(PID) ON DELETE CASCADE ON UPDATE CASCADE,
 AMOUNT integer not null,
 TRANSACTION_DATE date,
 TRANSACTION_TIME timestamp,
    CONSTRAINT transaction_details_pkey PRIMARY KEY (TRA_ID)
);

ALTER TABLE transaction_details ADD foreign key (PID)
 REFERENCES passenger(PID);
-----------------------------------------------------------------------
CREATE TABLE train
```

```
(
   train_id varchar(20) not null,
   TRAIN_NAME VARCHAR(100) not null,
   t_source VARCHAR(100),
 t_DESTINATION VARCHAR(100),
 E_ID integer references employee(E_ID ) ON DELETE CASCADE ON UPDATE CASCADE,
   CONSTRAINT train_pkey PRIMARY KEY (train_id)

 );

 ALTER TABLE train ADD foreign key (E_ID )
 references employee(E_ID );

--------------------------------------------------------------------------------
CREATE TABLE ticket
(
 ticket_id varchar(20) not null,
   pid integer references passenger(pid) ON DELETE CASCADE ON UPDATE CASCADE,  TRA_ID integer
 references transaction_details(TRA_ID) ON DELETE CASCADE ON UPDATE CASCADE,  TRAIN_ID
 varchar(30) references train(train_id) ON DELETE CASCADE ON UPDATE CASCADE,  CONSTRAINT
 ticket_pkey PRIMARY KEY (ticket_id)
);

ALTER TABLE ticket ADD foreign key (PID)
 REFERENCES passenger(PID);

 ALTER TABLE ticket ADD foreign key (TRA_ID)
 references transaction_details(TRA_ID);

 ALTER TABLE ticket ADD foreign key (train_id)
 references train(train_id);


-----------------------------------------------------------------------------------------------
CREATE TABLE employee
(
 E_ID INTEGER PRIMARY KEY,
 age INTEGER,
 fname VARCHAR(100) NOT NULL,
 Lname VARCHAR(100) NOT NULL,
 pan_no VARCHAR(10) NOT NULL UNIQUE,
 mobile_no NUMERIC(10) UNIQUE,
 sid INTEGER REFERENCES station,
 DES_ID INTEGER REFERENCES DESIGNATION
);



alter table employee add constraint emp_NAME unique(fname,lname);

-----------------------------------------------------------------
```

```
CREATE TABLE DEPARTMENT
(
 DEP_ID INTEGER PRIMARY KEY,
 DEP_NAME VARCHAR(100) NOT NULL
);
-----------------------------------------------------------------

CREATE TABLE DESIGNATION
(
 DES_ID INTEGER PRIMARY KEY,
 DES_NAME VARCHAR(100) NOT NULL,
 DEP_ID INTEGER REFERENCES DEPARTMENT
);
-----------------------------------------------------------------


CREATE TABLE medical_services
(
   PATIENT_ID integer not null,
 patient_name varchar(20),
 mobile_no integer,
 address varchar(20),
 sid integer references station(sid) ON DELETE CASCADE ON UPDATE CASCADE,


   CONSTRAINT medical_services_pkey PRIMARY KEY (PATIENT_ID)
 );
 alter table medical_services add column description varchar(200);
ALTER TABLE medical_services ADD foreign key (SID)
 REFERENCES station(SID);

-----------------------------------------------------------------
CREATE TABLE P_email
(
 P_EMAIL VARCHAR(20),
 pid integer references passenger(pid) ON DELETE CASCADE ON UPDATE CASCADE,
 PRIMARY KEY(P_EMAIL)
);

ALTER TABLE P_email ADD foreign key (pid)
 REFERENCES passenger(pid);

-----------------------------------------------------------------
 CREATE TABLE e_email
(
 E_EMAIL VARCHAR(20),
 E_id integer references employee(E_ID) ON DELETE CASCADE ON UPDATE CASCADE,
 PRIMARY KEY(e_email)
);

ALTER TABLE e_email ADD foreign key (E_ID)
 REFERENCES employee(E_ID);
```

```
---------------------------------------------------------------------
CREATE TABLE arr_dep_time
(

 TRAIN_ID varchar(30) references train(train_id) ON DELETE CASCADE ON UPDATE CASCADE,
  departure_time timestamp,

 arrival_time timestamp,

 sid integer references station(sid) ON DELETE CASCADE ON UPDATE CASCADE,
);
```