



```

CREATE TABLE cars (
    gos_num CHAR(13 CHAR) NOT NULL,
    mark VARCHAR2(32 CHAR) NOT NULL,
    class NUMBER(1) NOT NULL,
    color VARCHAR2(20 CHAR) NOT NULL,
    year NUMBER(4) NOT NULL
);
  
```

```

ALTER TABLE cars
    ADD CHECK ( class IN (
        0,
        1
    ));
  
```

```

ALTER TABLE cars ADD CHECK ( year BETWEEN 1980 AND 2020 );
  
```

```

ALTER TABLE cars ADD CONSTRAINT cars_pk PRIMARY KEY ( gos_num );
  
```

```

CREATE TABLE drivers (
    inn CHAR(12 CHAR) NOT NULL,
    pas_series CHAR(4 CHAR) NOT NULL,
    pas_num CHAR(6 CHAR) NOT NULL,
    last_name VARCHAR2(35 CHAR),
    first_name VARCHAR2(35 CHAR) NOT NULL,
  
```

```
second_name VARCHAR2(35 CHAR),
birthday    DATE NOT NULL,
gos_num     CHAR(13 CHAR) NOT NULL
);
```

```
ALTER TABLE drivers ADD CONSTRAINT drivers_pk PRIMARY KEY ( inn );
```

```
ALTER TABLE drivers ADD CONSTRAINT drivers_ak UNIQUE ( pas_series,
                                                         pas_num );
```

```
CREATE TABLE orders (
  order_id    INTEGER NOT NULL,
  order_date  DATE NOT NULL,
  order_time  DATE NOT NULL,
  start_address VARCHAR2(60 CHAR) NOT NULL,
  finish_address VARCHAR2(60 CHAR) NOT NULL,
  passengers  NUMBER(1),
  length      NUMBER(5, 1) NOT NULL,
  inn         CHAR(12 CHAR) NOT NULL
);
```

```
ALTER TABLE orders ADD CHECK ( passengers BETWEEN 1 AND 7 );
```

```
ALTER TABLE orders ADD CONSTRAINT orders_pk PRIMARY KEY ( order_id );
```

```
ALTER TABLE orders
  ADD CONSTRAINT orders_ak UNIQUE ( order_date,
                                     order_time,
                                     start_address,
                                     finish_address );
```

```
CREATE TABLE payments (
  kilometrage NUMBER(5, 1) NOT NULL,
  cost        NUMBER(6) NOT NULL,
  order_id    INTEGER NOT NULL,
  tarif_id    INTEGER NOT NULL
);
```

```
ALTER TABLE payments ADD CONSTRAINT payments_pk PRIMARY KEY ( order_id,
                                                                tarif_id );
```

```
CREATE TABLE tarifs (
  tarif_id    INTEGER NOT NULL,
  tarif_name  VARCHAR2(35 CHAR) NOT NULL,
  time_of_day NUMBER(1) NOT NULL,
  remoteness  NUMBER(1) NOT NULL,
  price_for_km NUMBER(4) NOT NULL
);
```

```
ALTER TABLE tarifs
  ADD CHECK ( time_of_day IN (
    0,
    1
  ));
```

```
ALTER TABLE tarifs
  ADD CHECK ( remoteness IN (
    0,
    1,
    2
  ));
```

```
ALTER TABLE tarifs ADD CONSTRAINT tarifs_pk PRIMARY KEY ( tarif_id );
```

```
ALTER TABLE tarifs
  ADD CONSTRAINT tarifs_ak UNIQUE ( tarif_name,
                                     time_of_day,
                                     remoteness );
```

```
CREATE TABLE tarifs_orders (
  orders_order_id INTEGER NOT NULL,
  tarifs_tarif_id INTEGER NOT NULL
);
```

```
ALTER TABLE tarifs_orders ADD CONSTRAINT tarifs_orders_pk PRIMARY KEY
( orders_order_id,
                                     tarifs_tarif_id );
```

```
ALTER TABLE drivers
  ADD CONSTRAINT drivers_cars_fk FOREIGN KEY ( gos_num )
  REFERENCES cars ( gos_num );
```

```
ALTER TABLE orders
  ADD CONSTRAINT orders_drivers_fk FOREIGN KEY ( inn )
  REFERENCES drivers ( inn );
```

```
ALTER TABLE payments
  ADD CONSTRAINT payments_tarifs_orders_fk FOREIGN KEY ( order_id,
                                                         tarif_id )
  REFERENCES tarifs_orders ( orders_order_id,
                              tarifs_tarif_id );
```

```
ALTER TABLE tarifs_orders
  ADD CONSTRAINT tarifs_orders_orders_fk FOREIGN KEY ( orders_order_id )
  REFERENCES orders ( order_id );
```

```
ALTER TABLE tarifs_orders
  ADD CONSTRAINT tarifs_orders_tarifs_fk FOREIGN KEY ( tarifs_tarif_id )
  REFERENCES tarifs ( tarif_id );
```