```
REM Create each table
SOL>
SQL> CREATE TABLE bill_tos_ci
  2
  3
                     NUMBER (5)
        bill to no
  4
           CONSTRAINT bill_bill_to_no_pk PRIMARY KEY,
  5
        bill to first name VARCHAR2(20)
  6
           CONSTRAINT bill bill to first name nn NOT NULL,
  7
        bill_to_last_name VARCHAR2(20)
  8
           CONSTRAINT bill_bill_to_last_name_nn NOT NULL,
  9
        bill_to_street_1 VARCHAR2(30)
 10
           CONSTRAINT bill_bill_to_street_1_nn NOT NULL,
 11
        bill_to_street_2 VARCHAR2(15),
 12
        bill_to_city VARCHAR2(30)
 13
           CONSTRAINT bill_bill_to_city_nn NOT NULL,
 14
        bill_to_state CHAR(2)
 15
           CONSTRAINT bill bill to state nn NOT NULL,
 16
                      CHAR(5)
        bill_to_zip
           CONSTRAINT bill_bill_to_zip_nn NOT NULL
 17
 18
    );
Table created.
SOL>
SQL> CREATE TABLE vehicles_ci
  2
  3
        vehicle vin VARCHAR2(17)
  4
           CONSTRAINT vcle_vehicle_vin_pk PRIMARY KEY,
  5
        vehicle_make VARCHAR2(20)
  6
           CONSTRAINT vcle_vehicle_make_nn NOT NULL,
  7
        vehicle_model VARCHAR2(20)
  8
           CONSTRAINT vcle_vehicle_model_nn NOT NULL,
  9
        vehicle year NUMBER(4)
           CONSTRAINT vcle vehicle year nn NOT NULL,
 10
 11
        vehicle color VARCHAR2(20)
 12
           CONSTRAINT vcle vehicle color nn NOT NULL,
 13
        vehicle dealer no CHAR(5)
 14
           CONSTRAINT vcle_vehicle_dealer_no_nn NOT NULL
 15
    );
Table created.
SOL>
SQL> CREATE TABLE items ci
  2
    (
  3
        item_no VARCHAR2(10)
  4
           CONSTRAINT item_item_no_pk PRIMARY KEY,
  5
        item_name VARCHAR2(20)
  6
           CONSTRAINT item_item_name_nn NOT NULL,
  7
        item_description VARCHAR2(30)
```

```
8
           CONSTRAINT item item description nn NOT NULL,
  9
        item unit price NUMBER(6,2)
 10
           CONSTRAINT item_item_unit_price_nn NOT NULL
 11
    );
Table created.
SOL>
SQL> CREATE TABLE owners_ci
  2 (
  3
        vehicle vin VARCHAR2(17),
  4
        bill_to_no NUMBER(5),
  5
           CONSTRAINT owners_vcle_vin_bill_to_no_pk
  6
              PRIMARY KEY (vehicle_vin,bill_to_no),
  7
           CONSTRAINT owners_vehicle_vin_fk
  8
              FOREIGN KEY (vehicle_vin)
  9
              REFERENCES vehicles ci(vehicle vin),
 10
           CONSTRAINT owners_bill_to_no_fk
 11
              FOREIGN KEY (bill_to_no)
 12
              REFERENCES bill_tos_ci(bill_to_no)
 13 );
Table created.
SQL>
SQL> CREATE TABLE invoices_ci
  2
        invoice_no NUMBER(5)
  3
  4
           CONSTRAINT invs_invoice_no_pk PRIMARY KEY,
  5
        invoice_date DATE
           CONSTRAINT invs_inv_date_nn NOT NULL,
  6
  7
        invoice_odometer NUMBER(6,2)
  8
           CONSTRAINT invs_inv_odometer_nn NOT NULL,
  9
        invoice tax NUMBER(4,2)
 10
           CONSTRAINT invs_inv_tax_nn NOT NULL,
        invoice payment cred NUMBER(5,2)
 11
 12
           CONSTRAINT invs_inv_payment_nn NOT NULL,
 13
        bill_to_no NUMBER(5)
 14
           CONSTRAINT invs bill to no nn NOT NULL,
 15
        vehicle vin VARCHAR2(17)
 16
           CONSTRAINT invs_vcle_vehicle_vin_nn NOT NULL,
 17
           CONSTRAINT invs bill to no fk
              FOREIGN KEY (vehicle_vin,bill_to_no)
 18
 19
              REFERENCES owners_ci(vehicle_vin,bill_to_no)
 20
    );
Table created.
SQL>
SQL> CREATE TABLE items_sold_ci
```

```
2
    (
  3
        invoice no NUMBER(5),
  4
        item_no VARCHAR2(10),
  5
        item gty sold NUMBER(3)
  6
           CONSTRAINT items sold item gty sold nn NOT NULL,
        item_unit_price NUMBER(5,2)
  7
  8
           CONSTRAINT items sold item unit price nn
  9
              NOT NULL,
 10
        CONSTRAINT items_sold_inv_no_item_no_pk
 11
           PRIMARY KEY (invoice_no,item_no),
        CONSTRAINT items_sold_invoice_no_fk
 12
 13
           FOREIGN KEY (invoice_no)
 14
           REFERENCES invoices_ci(invoice_no),
        CONSTRAINT prods_item_no_fk
 15
 16
           FOREIGN KEY (item_no)
 17
           REFERENCES items_ci(item_no)
 18
    );
Table created.
SQL> REM Create sequences for each table:
SQL> CREATE SEQUENCE bill_bill_tos_no_seq
  2 START WITH 8923
  3 INCREMENT BY 1
  4 MAXVALUE 99999
  5 NOCYCLE
  6 NOCACHE;
Sequence created.
SOL>
SQL> CREATE SEQUENCE vcle_vehicle_vin_no_seq
  2 START WITH 8923
  3 INCREMENT BY 1
  4 MAXVALUE 99999
  5 NOCYCLE
  6 NOCACHE;
Sequence created.
SOL>
SQL> CREATE SEQUENCE item item no no seq
  2 START WITH 8923
  3 INCREMENT BY 1
  4 MAXVALUE 99999
  5 NOCYCLE
  6 NOCACHE;
Sequence created.
```

```
SQL>
SQL> CREATE SEQUENCE items_sold_item_no_no_seq
  2 START WITH 8923
  3 INCREMENT BY 1
  4 MAXVALUE 99999
  5 NOCYCLE
  6 NOCACHE;
Sequence created.
S0L>
SQL> CREATE SEQUENCE invs_invoice_no_no_seq
  2 START WITH 8923
  3 INCREMENT BY 1
  4 MAXVALUE 99999
  5 NOCYCLE
  6 NOCACHE;
Sequence created.
SOL>
SQL> CREATE SEQUENCE owners_vehicle_vin_no_seq
  2 START WITH 8923
  3 INCREMENT BY 1
  4 MAXVALUE 99999
  5 NOCYCLE
  6 NOCACHE;
Sequence created.
SQL> REM To describe each table:
SQL> DESCRIBE items ci
 Name
                                           Null? Type
                                           NOT NULL VARCHAR2(10)
 ITEM NO
 ITEM NAME
                                           NOT NULL VARCHAR2(20)
 ITEM DESCRIPTION
                                           NOT NULL VARCHAR2(30)
                                           NOT NULL NUMBER(6,2)
 ITEM UNIT PRICE
SQL> DESCRIBE vehicles_ci
 Name
                                           Null? Type
 VEHICLE VIN
                                           NOT NULL VARCHAR2(17)
 VEHICLE_MAKE
                                           NOT NULL VARCHAR2(20)
 VEHICLE_MODEL
                                           NOT NULL VARCHAR2(20)
 VEHICLE_YEAR
                                           NOT NULL NUMBER(4)
 VEHICLE COLOR
                                           NOT NULL VARCHAR2(20)
 VEHICLE_DEALER_NO
                                           NOT NULL CHAR(5)
```

SQL> DESCRIBE bills_to_ci

BILL_BILL_TO_NO_PK

ERROR:

ORA-04043: object bills_to_ci does not exist

SQL> DESCRIBE owners_ci Name	Null?	Туре	
VEHICLE_VIN BILL_TO_NO		VARCHAR2(17) NUMBER(5)	
SQL> DESCRIBE invoices_ci Name	Null?	Туре	
INVOICE_NO INVOICE_DATE INVOICE_DATE INVOICE_ODOMETER INVOICE_TAX INVOICE_PAYMENT_CRED BILL_TO_NO VEHICLE_VIN	NOT NULL NOT NULL NOT NULL NOT NULL NOT NULL	NUMBER(5) DATE NUMBER(6,2) NUMBER(4,2) NUMBER(5,2) NUMBER(5) VARCHAR2(17)	
SQL> DESCRIBE items_sold_ci Name	Null? 	Туре	
INVOICE_NO ITEM_NO ITEM_QTY_SOLD ITEM_UNIT_PRICE	NOT NULL NOT NULL	NUMBER(5) VARCHAR2(10) NUMBER(3) NUMBER(5,2)	
<pre>SQL> SQL> REM To get information about constraints: SQL> COLUMN constraint_name FORMAT A32; SQL> COLUMN column_name FORMAT A20; SQL> COLUMN table_name FORMAT A15; SQL> SELECT constraint_name, column_name, table_name</pre>			
CONSTRAINT_NAME	COLUMN_NAME	TABLE_NAME	
BILL_BILL_TO_CITY_NN BILL_BILL_TO_FIRST_NAME_NN BILL_BILL_TO_LAST_NAME_NN	BILL_TO_CITY BILL_TO_FIRST_NAME BILL_TO_LAST_NAME		

BILL_TO_NO

BILL_TOS_CI

BILL_BILL_TO_STATE_NN BILL_BILL_TO_STREET_1_NN BILL_BILL_TO_ZIP_NN INVS_BILL_TO_NO_FK INVS_BILL_TO_NO_FK INVS_BILL_TO_NO_NN INVS_INVOICE_NO_PK	BILL_TO_STATE BILL_TO_STREET_1 BILL_TO_ZIP BILL_TO_NO VEHICLE_VIN BILL_TO_NO INVOICE_NO	BILL_TOS_CI BILL_TOS_CI BILL_TOS_CI INVOICES_CI INVOICES_CI INVOICES_CI INVOICES_CI
CONSTRAINT_NAME	COLUMN_NAME	TABLE_NAME
INVS_INV_DATE_NN INVS_INV_ODOMETER_NN INVS_INV_PAYMENT_NN INVS_INV_TAX_NN INVS_VCLE_VEHICLE_VIN_NN ITEMS_SOLD_INVOICE_NO_FK ITEMS_SOLD_INV_NO_ITEM_NO_PK ITEMS_SOLD_INV_NO_ITEM_NO_PK ITEMS_SOLD_ITEM_QTY_SOLD_NN ITEMS_SOLD_ITEM_UNIT_PRICE_NN ITEM_ITEM_DESCRIPTION_NN	INVOICE_DATE INVOICE_ODOMETER INVOICE_PAYMENT_CRED INVOICE_TAX VEHICLE_VIN INVOICE_NO INVOICE_NO ITEM_NO ITEM_QTY_SOLD ITEM_UNIT_PRICE ITEM_DESCRIPTION	INVOICES_CI INVOICES_CI INVOICES_CI INVOICES_CI INVOICES_CI ITEMS_SOLD_CI ITEMS_SOLD_CI ITEMS_SOLD_CI ITEMS_SOLD_CI ITEMS_SOLD_CI ITEMS_SOLD_CI ITEMS_SOLD_CI ITEMS_CI
CONSTRAINT_NAME	COLUMN_NAME	TABLE_NAME
ITEM_ITEM_NAME_NN ITEM_ITEM_NO_PK ITEM_ITEM_UNIT_PRICE_NN OWNERS_BILL_TO_NO_FK OWNERS_VCLE_VIN_BILL_TO_NO_PK OWNERS_VCLE_VIN_BILL_TO_NO_PK OWNERS_VEHICLE_VIN_FK PRODS_ITEM_NO_FK VCLE_VEHICLE_COLOR_NN VCLE_VEHICLE_DEALER_NO_NN VCLE_VEHICLE_MAKE_NN	ITEM_NAME ITEM_NO ITEM_UNIT_PRICE BILL_TO_NO VEHICLE_VIN BILL_TO_NO VEHICLE_VIN ITEM_NO VEHICLE_COLOR VEHICLE_DEALER_NO VEHICLE_MAKE	ITEMS_CI ITEMS_CI ITEMS_CI OWNERS_CI OWNERS_CI OWNERS_CI OWNERS_CI VEHICLES_CI VEHICLES_CI VEHICLES_CI
CONSTRAINT_NAME	COLUMN_NAME	TABLE_NAME
VCLE_VEHICLE_MODEL_NN VCLE_VEHICLE_VIN_PK VCLE_VEHICLE_YEAR_NN	VEHICLE_MODEL VEHICLE_VIN VEHICLE_YEAR	VEHICLES_CI VEHICLES_CI VEHICLES_CI

36 rows selected.

SQL>

SQL> REM To get information about sequences:
SQL> SELECT sequence_name, increment_by
2 FROM user_sequences;

SEQUENCE_NAME

INCREMENT_BY

1
1
1
1
1
1

6 rows selected.

SQL>