Part 1: Reading Information From A Script

1. How many tables have been created using the CREATE TABLE statement?
   10 tables

2. How many columns are created for the history table?
   6 columns

3. What statement is used to enforce the constraint that the category column of the items table must have a value?
   NOT NULL,

4. What is the name of the foreign key constraint between the customers and customer addresses tables?
   customer_address_customer_fk

5. What are the lowest and highest values that can be stored in the commission_rate column for the sales_representative table?

   Lowest value: -99
   Highest value: 99

6. What are the lowest and highest values that can be stored in the price column for the price_history table?

   Lowest value: -9999999.99
   Highest value: 9999999.99

7. What are the 3 columns that make up the primary key for the price_history table?
   a. **itm_number**
   b. **start_date**
   c. **start_time**

Part 2:

Modifying a column

```
SQL> ALTER TABLE orders
  2  MODIFY (odr_date DATE DEFAULT SYSDATE);

Table altered.

SQL> describe orders
 Name                                      Null?    Type
 ----------------------------------------- -------- ------------------------------
 ID                                        NOT NULL VARCHAR2(9)
 ODR_DATE                                  NOT NULL DATE
 ODR_TIME                                  NOT NULL DATE
 NUMBER_OF_UNITS                           NOT NULL NUMBER(2)
 CTR_NUMBER                                NOT NULL VARCHAR2(6)
```

Adding a check constraint

```
SQL> describe customers
 Name                                      Null?    Type
 ----------------------------------------- -------- ------------------------------
 CTR_NUMBER                                NOT NULL VARCHAR2(6)
 EMAIL                                     NOT NULL VARCHAR2(50)
 FIRST_NAME                                NOT NULL VARCHAR2(20)
 LAST_NAME                                 NOT NULL VARCHAR2(30)
 PHONE_NUMBER                              NOT NULL VARCHAR2(11)
 CURRENT_BALANCE                           NOT NULL NUMBER(6,2)
 SRE_ID                                             VARCHAR2(4)
 TEM_ID                                             VARCHAR2(4)
 LOYALTY_CARD_NUMBER                                VARCHAR2(6)
```

Adding a column

```
SQL> ALTER TABLE customers
  2  ADD mobile_no VARCHAR2(11);

Table altered.

SQL> describe customers
 Name                                      Null?    Type
 ----------------------------------------- -------- ------------------------------
 CTR_NUMBER                                NOT NULL VARCHAR2(6)
 EMAIL                                     NOT NULL VARCHAR2(50)
 FIRST_NAME                                NOT NULL VARCHAR2(20)
 LAST_NAME                                 NOT NULL VARCHAR2(30)
 PHONE_NUMBER                              NOT NULL VARCHAR2(11)
 CURRENT_BALANCE                           NOT NULL NUMBER(6,2)
 SRE_ID                                             VARCHAR2(4)
 TEM_ID                                             VARCHAR2(4)
 LOYALTY_CARD_NUMBER                                VARCHAR2(6)
 MOBILE_NO                                          VARCHAR2(11)
```

Dropping a column

```
SQL> ALTER TABLE customers DROP COLUMN mobile_no;

Table altered.

SQL> describe customers
 Name                                      Null?    Type
 ----------------------------------------- -------- ------------------------------
 CTR_NUMBER                                NOT NULL VARCHAR2(6)
 EMAIL                                     NOT NULL VARCHAR2(50)
 FIRST_NAME                                NOT NULL VARCHAR2(20)
 LAST_NAME                                 NOT NULL VARCHAR2(30)
 PHONE_NUMBER                              NOT NULL VARCHAR2(11)
 CURRENT_BALANCE                           NOT NULL NUMBER(6,2)
 SRE_ID                                             VARCHAR2(4)
 TEM_ID                                             VARCHAR2(4)
 LOYALTY_CARD_NUMBER                                VARCHAR2(6)
```