

## SOLUTIONS:

### EXERCISE DAY 2.3

1)

```
CREATE TABLE PERSONS (  
  PERSONID INTEGER,  
  LASTNAME VARCHAR2(20),  
  FIRSTNAME VARCHAR2(20),  
  ADDRESS VARCHAR2(50),  
  CITY VARCHAR2(20)  
);
```

2)

```
CREATE TABLE EMPLOYEE (  
  EMP_ID INTEGER CONSTRAINT EMP_EID_NN NOT NULL,  
  LASTNAME VARCHAR2(20),  
  FIRSTNAME VARCHAR2(20),  
  ADDRESS VARCHAR2(50),  
  CITY VARCHAR2(20)  
);
```

3)

```
CREATE TABLE STUDENT (  
  STU_ID INTEGER CONSTRAINT STU_SID_NN NOT NULL,  
  LASTNAME VARCHAR2(20),  
  FIRSTNAME VARCHAR2(20),  
  ADDRESS VARCHAR2(50),  
  CITY VARCHAR2(20) DEFAULT 'AGRA'  
);
```

4)

```
CREATE TABLE ORDERS (  
  ORD_ID NUMBER,  
  LASTNAME VARCHAR2(20),  
  FIRSTNAME VARCHAR2(20),  
  ADDRESS VARCHAR2(50),  
  PRICE NUMBER(5,2)  
);
```

5)

```
CREATE TABLE ORDERS (  
  ORD_ID NUMBER CONSTRAINT ORD_OID_NN NOT NULL,  
  LASTNAME VARCHAR2(20),  
  FIRSTNAME VARCHAR2(20),  
  ADDRESS VARCHAR2(50),  
  PRICE NUMBER(5,2) CONSTRAINT ORD_PRI_NN NOT NULL  
);
```

## EXERCISE DAY 2.4

6)

```
CREATE TABLE PERSONS (  
  PERSONID INTEGER CONSTRAINT PER_PID_PK PRIMARY KEY,  
  LASTNAME VARCHAR2(20),  
  FIRSTNAME VARCHAR2(20),  
  ADDRESS VARCHAR2(50),  
  CITY VARCHAR2(20) CONSTRAINT PER_CTY_NN NOT NULL  
);
```

7)

```
CREATE TABLE EMPLOYEE (  
  EMP_ID INTEGER,  
  LASTNAME VARCHAR2(20),  
  FIRSTNAME VARCHAR2(20),  
  ADDRESS VARCHAR2(50),  
  CITY VARCHAR2(20),  
  CONSTRAINT EMP_IDFN_CPK PRIMARY KEY (EMP_ID, FIRSTNAME)  
);
```

8)

```
CREATE TABLE STUDENT (  
  STU_ID INTEGER CONSTRAINT STU_SID_PK PRIMARY KEY,  
  LASTNAME VARCHAR2(20),  
  FIRSTNAME VARCHAR2(20),  
  ADDRESS VARCHAR2(50),  
  CITY VARCHAR2(20) DEFAULT 'AGRA',  
  CONSTRAINT STU_LNFN_CK CHECK (LASTNAME <> FIRSTNAME)  
);
```

9)

```
CREATE TABLE STUDENT (  
  STU_ID INTEGER CONSTRAINT STU_SID_PK PRIMARY KEY,  
  LASTNAME VARCHAR2(20),  
  FIRSTNAME VARCHAR2(20),  
  GENDER CHAR(1) CONSTRAINT STU_GEN_CK CHECK ( GENDER IN ('M','F')),  
  CITY VARCHAR2(20) DEFAULT 'AGRA'  
);
```

10)

```
CREATE TABLE ORDERS (  
  ORD_ID NUMBER CONSTRAINT ORD_OID_UK UNIQUE,  
  LASTNAME VARCHAR2(20),  
  FIRSTNAME VARCHAR2(20),  
  ADDRESS VARCHAR2(50),  
  PRICE NUMBER(5,2)  
);
```

## EXERCISE DAY 2.5

1)

```
ALTER TABLE CUSTOMER  
ADD CUSTOMER_AGE INT
```

2)

```
ALTER TABLE ORDERS  
MODIFY PRODUCT_ID INT
```

3)

```
ALTER TABLE CUSTOMERS  
DROP COLUMN EMAIL
```

4)

```
ALTER TABLE PERSONS  
MODIFY (AGE NOT NULL)
```

5)

```
ALTER TABLE ORDERS  
DROP CONSTRAINT PK_ODRER
```