

Database Lab 1

Name: Muhammad Thia Thaqif Bin Shahruv Akbar

Matric: B23CS0060

Section: 06

Part 1

1. 10 tables
2. 6 columns
3. NOT NULL
4. customer_address - customer -
5. lowest is -99 and highest is 99
6. lowest is - 99 999.99 and highest is 99 999.99
7. item-number, start_date, start_time

Part 2

1. DESCRIBE orders;

| column | Null? | Type |
|-----------------|----------|------------|
| id | NOT NULL | VARCHAR(9) |
| odr-date | NOT NULL | DATE |
| odr-time | NOT NULL | DATE |
| number-of-units | NOT NULL | NUMBER(?) |
| ctr-number | NOT NULL | VARCHAR(6) |

2. ALTER TABLE orders

Modify odr-date DATE DEFAULT SYSDATE;

3. DESCRIBE orders;

1. DESCRIBE customers ;

| column | 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) |

2. ALTER TABLE customers

ADD CONSTRAINT check_balance
CHECK (current_balance >= 0);

3. DESCRIBE customers ;

| constraints | Type | Condition | related constraint | related table |
|---------------|-------|----------------------|--------------------|---------------|
| check_balance | check | current_balance >= 0 | - | - |

| constraints | column | on delete | status |
|-------------|--------|-----------|---------|
| - | - | - | ENABLED |

1. DESCRIBE customers;

| column | NULL? | Type |
|---------------------|----------|---------------|
| ctr-number | NOT NULL | VARCHAR 2(6) |
| email | NOT NULL | VARCHAR 2(50) |
| first-name | NOT NULL | VARCHAR 2(20) |
| last-name | NOT NULL | VARCHAR 2(30) |
| phone-number | NOT NULL | VARCHAR 2(11) |
| current-balance | NOT NULL | NUMBER (6,2) |
| sre-id | - | VARCHAR 2(4) |
| tcm-id | - | VARCHAR 2(4) |
| loyalty-card-number | - | VARCHAR 2(6) |

2. ALTER TABLE customers

ADD mobile-phone-number VARCHAR 2(11);

3. DESCRIBE customers;

| column | NULL? | Type |
|---------------------|----------|---------------|
| ctr-number | NOT NULL | VARCHAR 2(6) |
| email | NOT NULL | VARCHAR 2(50) |
| first-name | NOT NULL | VARCHAR 2(20) |
| last-name | NOT NULL | VARCHAR 2(30) |
| phone-number | NOT NULL | VARCHAR 2(11) |
| current-balance | NOT NULL | NUMBER (6,2) |
| sre-id | - | VARCHAR 2(4) |
| tcm-id | - | VARCHAR 2(4) |
| loyalty-card-number | - | VARCHAR 2(6) |
| mobile-phone-number | - | VARCHAR 2(11) |

1. DESCRIBE customers;

| column | 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) |
| cre-id | - | VARCHAR2 (4) |
| tem-id | - | VARCHAR2 (4) |
| loyalty-card-number | - | VARCHAR2 (6) |
| mobile-phone-number | - | VARCHAR2 (11) |

2. ALTER TABLE customers;

DROP COLUMN mobile-phone-number;

3. DESCRIBE customers;

| column | 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) |
| cre-id | - | VARCHAR2 (4) |
| tem-id | - | VARCHAR2 (4) |
| loyalty-card-number | - | VARCHAR2 (6) |