DATE / NO. Lion Chee Suan Lab ((Database) ALLECOOTZ 1. 10 3 NOT NULL 4. ctr_number 5. -99 , 99 6. - 99999 99 , 99999 99 1. itm_number, start_date, start_time. Part 2 1. Modifying a column Code: describe orders; alter table orders medify odr-date date default sysdate; describe orders; 2 Adding a check constraint Code: describe oustomers; after table constoners add constraint check positive balance check (current_balance >= 0); describe customers; 3. Adding a column Code: describe customers; alter table customers add mobile phoneNum varchar 2 (11); describe customers; 4. propping a column Code: describe customers; alter table customers drop column mobile phone Num; describe customers;

Appendix

Part 2

1. Modifying column

```
describe orders;
alter table orders modify odr_date date default sysdate;
describe orders;
```

(code in Oracle SQL Live)

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Column	Null?	Туре
ID	NOT NULL	VARCHAR2(9)
ODR_DATE	NOT NULL	DATE
ODR_TIME	NOT NULL	DATE
NUMBER_OF_UNITS	NOT NULL	NUMBER(2,0)
CTR_NUMBER	NOT NULL	VARCHAR2(6)

(Table orders before modify)

Table altered.

TABLE ORDERS

TABLE ORDERS				
Column	Null?	Туре		
ID	NOT NULL	VARCHAR2(9)		
ODR_DATE	NOT NULL	DATE		
ODR_TIME	NOT NULL	DATE		
NUMBER_OF_UNITS	NOT NULL	NUMBER(2,0)		
CTR_NUMBER	NOT NULL	VARCHAR2(6)		

(Table orders after modify)

2. Adding a check constraint

```
describe customers;
alter table customers add constraint check_positiveBalance check(current_balance >= 0);
describe customers;
```

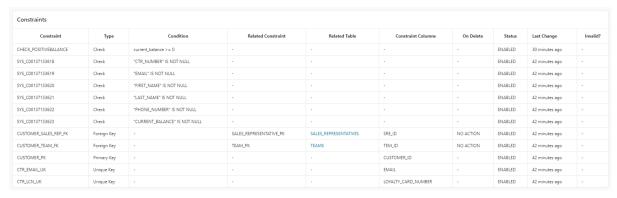
(code in Oracle SQL Live)

TABLE CUSTOMERS					
Column	Null?	Туре			
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)			

(Table customers before adding check constraint)

TABLE CUSTOMERS					
Column	Null?	Туре			
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)			

(Table customers after adding check constraint)



(Constraints of customers relation)

3. Adding column

```
describe customers;
alter table customers add mobile_phoneNum varchar2(11);
describe customers;
```

(Code in Oracle SQL Live)

Column	Null?	Туре
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)

(Table customers before adding column)

TABLE CUSTOMERS					
Column	Null?	Туре			
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_PHONENUM	-	VARCHAR2(11)			

(Table customers after adding column)

4. Dropping column

describe customers; describe customers;
alter table customers drop column mobile_phoneNum;
describe customers;

(Code in Oracle SQL Live)

TABLE 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)			
MOBILE_PHONENUM	-	VARCHAR2(11)			

(Table customers before dropping column)

TABLE CUSTOMERS

Column	Null?	Туре
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)

(Table customers after dropping column)