

CHEAH SEONG MEN A226C0041

Part 1

1. 10 tables
2. 6 columns
3. NOT NULL
4. ctr\_number
5. lowest = -99.99, highest = 99.99
6. lowest = -9999999.99, highest = 9999999.99
7. primary key = itm\_number, start\_date, start\_time

Part 2

Modify a column =

1. DESCRIBE orders;
2. ALTER TABLE orders MODIFY odr\_date DATE DEFAULT SYSDATE;
3. DESCRIBE orders;

Adding a check constraint =

1. DESCRIBE customers;
2. ADD CONSTRAINT chk\_balance\_nonnegative  
CHECK (current\_balance >= 0);
3. DESCRIBE customers;
4. SELECT constraint\_name, constraint\_type, search\_condition  
FROM user\_constraints  
WHERE table\_name = 'CUSTOMERS';

Adding a column =

1. DESCRIBE customers;
2. ALTER TABLE customers ADD mobile\_phone\_number VARCHAR2(11);
3. DESCRIBE customers;

Dropping a column =

1. DESCRIBE customers;
2. ALTER TABLE customers DROP COLUMN mobile\_phone\_number;
3. DESCRIBE customers;

Output for Part2:

Modify the column:

1. Output of DESCRIBE command before table is altered.

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)

3. Output of DESCRIBE command before table is altered.

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:

1. Output of DESCRIBE command before table is altered.

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)

3. Output of DESCRIBE command after table is altered.

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)

4. Display the constraint.

	CONSTRAINT_NAME	CONSTRAINT_TYPE	SEARCH_CONDITION
1	CUSTOMER_SALES_REP_FK	R	(null)
2	CUSTOMER_TEAM_FK	R	(null)
3	SYS_C008308	C	"CTR_NUMBER" IS NOT NULL
4	SYS_C008309	C	"EMAIL" IS NOT NULL
5	SYS_C008310	C	"FIRST_NAME" IS NOT NULL
6	SYS_C008311	C	"LAST_NAME" IS NOT NULL
7	SYS_C008312	C	"PHONE_NUMBER" IS NOT NULL
8	SYS_C008313	C	"CURRENT_BALANCE" IS NOT NULL
9	CHK_BALANCE_NONNEGATIVE	C	current_balance >= 0
10	CUSTOMER_PK	P	(null)
11	CTR_EMAIL_UK	U	(null)
12	CTR_LCN_UK	U	(null)

Adding a column:

1. Output of DESCRIBE command before table is altered.

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)

3. Output of DESCRIBE command after table is altered.

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)



Dropping a column:

1. Output of DESCRIBE command before table is altered.

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)

3. Output of DESCRIBE command after table is altered.

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)