LIN CHONG HUI   A22EC0184

PART 1

① 10 tables

② 6 columns

③ NOT NULL

④ ctr_number

⑤ lowest = -99 , highest = 99

⑥ lowest = -99999.99, highest = 99999.99

⑦ primary key = itm_number, start_date, start_time

Output for Part 2

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)

⑤ 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.

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)

③ Output of DESCRIBE command after table is altered.

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_PHONE_NUMBER	-	VARCHAR2(11)