

Lab 1 CDDL

Name: Oh Kai Xuan

Matric No: A22EC0099

Course Name: Database

Course Code: SECD2523

Section: 06

Lecturer: Dr. Izyan Izzati Binti Kamsani

Part 1

1) How many tables have been created using the CREATE TABLE statement?

- 10 tables have been created

2) How many columns are created for the price history table?

- 6 columns are created which are start-date, start-time, price, end-date, end-time, and itm-number.

3) What statement is used to enforce the constraint that the category column of the items table must have a value?

- NOT NULL

4) What is the name of the foreign key constraint between the customers and customer addresses tables?

- customer_address_customer_fk

5) What are the lowest and highest values that can be stored in the commission_rate column for the sales representatives table?

i) lowest value: -99

ii) highest value: 99

6) What are the lowest and highest values that can be stored in the price column for the price_history table?

i) lowest value: -9999999.99

ii) highest value: 9999999.99

7) What are the 3 columns that make up the primary key for the price_history table?

i) itm-number

ii) start-date

iii) start-time



Part 2

Modifying a column.

1) DESCRIBE orders

102 DESCRIBE orders

103

Results	Explain	Describe	Saved SQL	History					
Object Type		TABLE	Object						
			ORDERS						
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ORDERS	ID	VARCHAR2	9	-	-	1	-	-	-
	ODR_DATE	DATE	7	-	-	-	-	-	-
	ODR_TIME	DATE	7	-	-	-	-	-	-
	NUMBER_OF_UNITS	NUMBER	-	2	0	-	-	-	-
	CTR_NUMBER	VARCHAR2	6	-	-	-	-	-	-

2) ALTER TABLE orders

MODIFY odr_date DATE DEFAULT SYSDATE;

102 ALTER TABLE orders
103 MODIFY odr_date DATE DEFAULT SYSDATE;

3) DESCRIBE orders

Results	Explain	Describe	Saved SQL	History					
Object Type		TABLE ⓘ	Object ORDERS ⓘ						
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ORDERS	ID	VARCHAR2	9	-	-	1	-	-	-
	ODR_DATE	DATE	7	-	-	-	-	SYSDATE	-
	ODR_TIME	DATE	7	-	-	-	-	-	-
	NUMBER_OF_UNITS	NUMBER	-	2	0	-	-	-	-
	CTR_NUMBER	VARCHAR2	6	-	-	-	-	-	-

Adding a check constraint

1) DESCRIBE customers

80 DESCRIBE customers

Results	Explain	Describe	Saved SQL	History					
Object Type		TABLE	Object						
			CUSTOMERS						
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CUSTOMERS	CTR_NUMBER	VARCHAR2	6	-	-	1	-	-	-
	EMAIL	VARCHAR2	50	-	-	-	-	-	-
	FIRST_NAME	VARCHAR2	20	-	-	-	-	-	-
	LAST_NAME	VARCHAR2	30	-	-	-	-	-	-
	PHONE_NUMBER	VARCHAR2	11	-	-	-	-	-	-
	CURRENT_BALANCE	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);

```
81 ALTER TABLE customers
82 ADD CONSTRAINT check_balance CHECK (current_balance >= 0);
```

3) DESCRIBE customers

83 DESCRIBE customers

ResultsExplainDescribe

Saved SQLHistory

Object TypeTABLE

CUSTOMERS

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CUSTOMERS	CTR_NUMBER	VARCHAR2	6	-	-	1	-	-	-
	EMAIL	VARCHAR2	50	-	-	-	-	-	-
	FIRST_NAME	VARCHAR2	20	-	-	-	-	-	-
	LAST_NAME	VARCHAR2	30	-	-	-	-	-	-
	PHONE_NUMBER	VARCHAR2	11	-	-	-	-	-	-
	CURRENT_BALANCE	NUMBER	-	6	2	-	-	-	-
	SRE_ID	VARCHAR2	4	-	-	-	✓	-	-
	TEM_ID	VARCHAR2	4	-	-	-	✓	-	-
	LOYALTY_CARD_NUMBER	VARCHAR2	6	-	-	-	✓	-	-

4)

CUSTOMERS			
Columns	Data	Indexes	Constraints
+ Create Drop Enable Disable Refresh			
Constraint	Type	Search Condition	Related Constraint
CHECK_BALANCE	Check	current_balance >= 0	
SYS_C00149073387	Check	"CTR_NUMBER" IS NOT NULL	
SYS_C00149073388	Check	"EMAIL" IS NOT NULL	
SYS_C00149073389	Check	"FIRST_NAME" IS NOT NULL	
SYS_C00149073390	Check	"LAST_NAME" IS NOT NULL	
SYS_C00149073391	Check	"PHONE_NUMBER" IS NOT NULL	
SYS_C00149073392	Check	"CURRENT_BALANCE" IS NOT NULL	
CUSTOMER_PK	Primary		
CTR_EMAIL_UK	Unique		
CTR_LCN_UK	Unique		

Adding a column

1) DESCRIBE customers

82DESCRIBE customers

Results

Explain

Describe

Saved SQL

History

Object Type

TABLE

Object

CUSTOMERS

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CUSTOMERS	CTR_NUMBER	VARCHAR2	6	-	-	1	-	-	-
	EMAIL	VARCHAR2	50	-	-	-	-	-	-
	FIRST_NAME	VARCHAR2	20	-	-	-	-	-	-
	LAST_NAME	VARCHAR2	30	-	-	-	-	-	-
	PHONE_NUMBER	VARCHAR2	11	-	-	-	-	-	-
	CURRENT_BALANCE	NUMBER	-	6	2	-	-	-	-
	SRE_ID	VARCHAR2	4	-	-	-	✓	-	-
	TEM_ID	VARCHAR2	4	-	-	-	✓	-	-
	LOYALTY_CARD_NUMBER	VARCHAR2	6	-	-	-	✓	-	-

phikaixuan@gmail.com

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2) ALTER TABLE customers
ADD mobile_phone_number VARCHAR2(11);

```
80 ALTER TABLE customers
81 ADD mobile_phone_number VARCHAR2(11);
```

3) DESCRIBE customers

82 DESCRIBE customers

83

ResultsExplainDescribeSave SQLHistory

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CUSTOMERS	CTR_NUMBER	VARCHAR2	6	-	-	1	-	-	-
	EMAIL	VARCHAR2	50	-	-	-	-	-	-
	FIRST_NAME	VARCHAR2	20	-	-	-	-	-	-
	LAST_NAME	VARCHAR2	30	-	-	-	-	-	-
	PHONE_NUMBER	VARCHAR2	11	-	-	-	-	-	-
	CURRENT_BALANCE	NUMBER	-	6	2	-	-	-	-
	SRE_ID	VARCHAR2	4	-	-	-		-	-
	TEM_ID	VARCHAR2	4	-	-	-		-	-
	LOYALTY_CARD_NUMBER	VARCHAR2	6	-	-	-		-	-
MOBILE_PHONE_NUMBER	VARCHAR2	11	-	-	-		-	-	

Dropping a column

1) DESCRIBE customers

82 DESCRIBE customers

83

Results	Explain	Describe	Save SQL	History					
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CUSTOMERS	CTR_NUMBER	VARCHAR2	6	-	-	1	-	-	-
	EMAIL	VARCHAR2	50	-	-	-	-	-	-
	FIRST_NAME	VARCHAR2	20	-	-	-	-	-	-
	LAST_NAME	VARCHAR2	30	-	-	-	-	-	-
	PHONE_NUMBER	VARCHAR2	11	-	-	-	-	-	-
	CURRENT_BALANCE	NUMBER	-	6	2	-	-	-	-
	SRE_ID	VARCHAR2	4	-	-	-		-	-
	TEM_ID	VARCHAR2	4	-	-	-		-	-
	LOYALTY_CARD_NUMBER	VARCHAR2	6	-	-	-		-	-
	MOBILE_PHONE_NUMBER	VARCHAR2	11	-	-	-		-	-

2) ALTER TABLE customers
DROP (mobile_phone_number);

```
82 ALTER TABLE customers
83 DROP (mobile_phone_number);
```



3) DESCRIBE customers.

84 DESCRIBE customers

85

86

Results

Explain

Describe

Saved SQL

History

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CUSTOMERS	CTR_NUMBER	VARCHAR2	6	-	-	1	-	-	-
	EMAIL	VARCHAR2	50	-	-	-	-	-	-
	FIRST_NAME	VARCHAR2	20	-	-	-	-	-	-
	LAST_NAME	VARCHAR2	30	-	-	-	-	-	-
	PHONE_NUMBER	VARCHAR2	11	-	-	-	-	-	-
	CURRENT_BALANCE	NUMBER	-	6	2	-	-	-	-
	SRE_ID	VARCHAR2	4	-	-	-	✓	-	-
	TEM_ID	VARCHAR2	4	-	-	-	✓	-	-
	LOYALTY_CARD_NUMBER	VARCHAR2	6	-	-	-	✓	-	-

ohkeixuan1@gmail.com pkx03 en

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