

### SESSION 2023/20204 SEMESTER 1

SECD2523 DATABASE

LAB EXERCISE: DDL

# LECTURER NAME: DR. ROZILAWATI BINTI DOLLAH

**SECTION:** 

**10** 

NAME:
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MATRIC NO: A22EC0196

### PART 1

- 1. 10 tables
- 2. 6 columns
- 3. NOT NULL
- 4. customer\_address\_pk
- 5. minimum =1, maximum = 2;
- 6. lowest = 1, highest = 7
- 7. itm\_number, start\_date, start\_time

## PART 2

## Modifying a column

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						

1.

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

2.

Object Type TABLE ② Object ORDERS ②									
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						

3.

### Adding a check constraint

Object T	ype TABLE ②	Object	CUSTOMER	RS ?					
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Commer
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				S		
	TEM_ID	VARCHAR2	4				\$		
	LOYALTY_CARD_NUMBER	VARCHAR2	6				s/		

- 1 ALTER TABLE customers
  - 2 ADD CONSTRAINT chck\_current\_balance CHECK (current\_balance >= 0);

2.

Object Ty	ype TABLE ?	Object	CUSTOMER	RS ?					
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				<b></b> ✓		
	LOYALTY_CARD_NUMBER	VARCHAR2	6				<b></b> ✓		

3.

Constraint	Туре	Search Condition	Related Constraint	Columns	Delete Rule
CHCK_CURRENT_BALANCE	Check	current_balance >= 0			
SYS_C00150990420	Check	"CTR_NUMBER" IS NOT NULL			
SYS_C00150990421	Check	"EMAIL" IS NOT NULL			
SYS_C00150990422	Check	"FIRST_NAME" IS NOT NULL			
SYS_C00150990423	Check	"LAST_NAME" IS NOT NULL			
SYS_C00150990424	Check	"PHONE_NUMBER" IS NOT NULL			
SYS_C00150990425	Check	"CURRENT_BALANCE" IS NOT NULL			
CUSTOMER_PK	Primary			CTR_NUMBER	
CTR_EMAIL_UK	Unique			EMAIL	
CTR_LCN_UK	Unique			LOYALTY_CARD_NUMBER	

4

## Adding a column

Object Ty	ype TABLE ②	Object	CUSTOMER	rs 🕜					
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				<b></b> ✓		
	TEM_ID	VARCHAR2	4				<b></b> √		
	LOYALTY_CARD_NUMBER	VARCHAR2	6				s/		

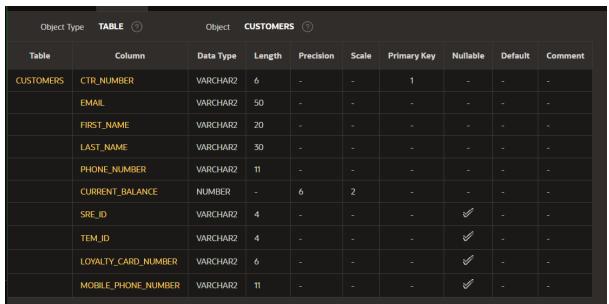
1.

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

Object Ty	/pe TABLE ?	Object	CUSTOMER	s ?					
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CUSTOMERS	CTR_NUMBER	VARCHAR2	6						
	EMAIL	VARCHAR2	50						
	FIRST_NAME	VARCHAR2	20						
	LAST_NAME	VARCHAR2	30						
	PHONE_NUMBER	VARCHAR2	11						
	CURRENT_BALANCE	NUMBER		6	2				
	SRE_ID	VARCHAR2	4				S		
	TEM_ID	VARCHAR2	4				s/		
	LOYALTY_CARD_NUMBER	VARCHAR2	6				S		
	MOBILE_PHONE_NUMBER	VARCHAR2	11				s/		

3.

#### Dropping a column



1.

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

Object Ty	ype TABLE ②	Object	Object CUSTOMERS ②							
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				<b></b> ✓			
	TEM_ID	VARCHAR2	4				S/			
	LOYALTY_CARD_NUMBER	VARCHAR2	6				<b></b> ✓			

3.