



**UTM**  
UNIVERSITI TEKNOLOGI MALAYSIA

## **DATABASE – SECD2523**

### **SECTION: 06**

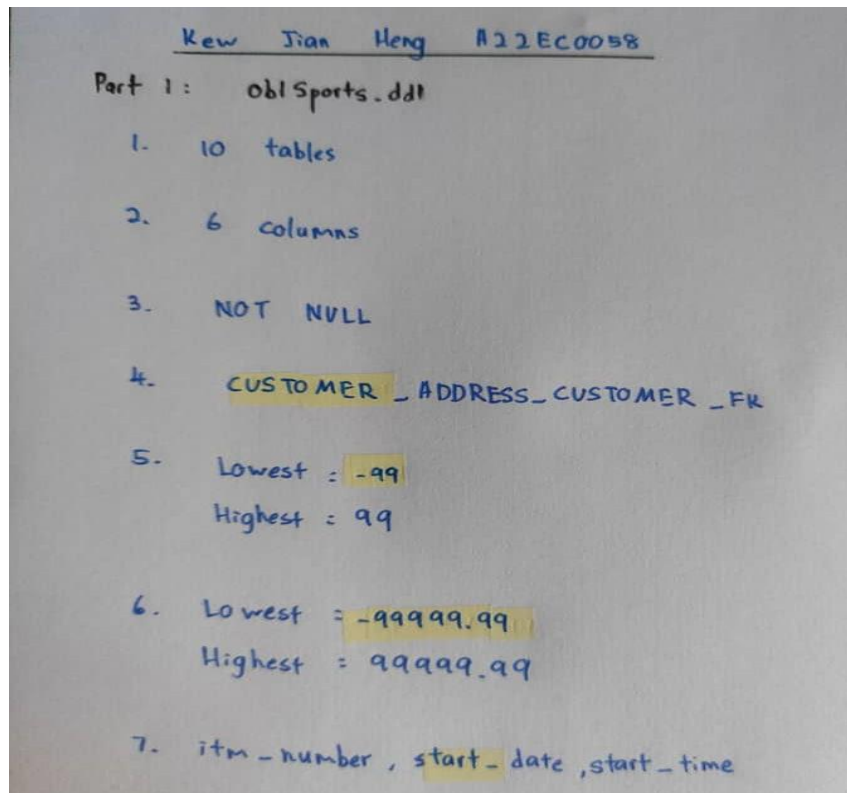
#### **LAB 1**

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## PART 1



## PART 2

### A. Modifying a column

1. DESCRIBE orders

2. ALTER TABLE orders  
MODIFY odr-date DATE DEFAULT SYSDATE;

3. DESCRIBE orders

1 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	-	-	-	-	-	-

## B. Adding a check constraint

```

1. DESCRIBE customers
2. ALTER TABLE customers
   MODIFY current_balance CONSTRAINT ctr_crn CHECK (current_balance >= 0);
3. DESCRIBE customers
  
```

Constraint	Type	Search Condition	Related Constraint	Columns	Delete rule	Status	Last Change	Index	Invalid
CTR_CRN	Check	current_balance=0				ENABLED	11/07/2023		
SYS_C00149069913	Check	"CTR_NUMBER" IS NOT NULL				ENABLED	11/07/2023		
SYS_C00149069914	Check	"EMAIL" IS NOT NULL				ENABLED	11/07/2023		
SYS_C00149069915	Check	"FIRST_NAME" IS NOT NULL				ENABLED	11/07/2023		
SYS_C00149069916	Check	"LAST_NAME" IS NOT NULL				ENABLED	11/07/2023		
SYS_C00149069917	Check	"PHONE_NUMBER" IS NOT NULL				ENABLED	11/07/2023		
SYS_C00149069918	Check	"CURRENT_BALANCE" IS NOT NULL				ENABLED	11/07/2023		
CUSTOMER_SALES_REP_FK	Foreign		SALES_REPRESENTATIVE_PK (WKSPP_KEW0035.SALES_REPRESENTATIVES)	SRE_ID	NO ACTION	ENABLED	11/07/2023		
CUSTOMER_TEAM_FK	Foreign		TEAM_PK (WKSPP_KEW0035.TEAMS)	TEM_ID	NO ACTION	ENABLED	11/07/2023		
CUSTOMER_PK	Primary			CTR_NUMBER		ENABLED	11/07/2023	CUSTOMER_PK	
CTR_EMAIL_UK	Unique			EMAIL		ENABLED	11/07/2023	CTR_EMAIL_UK	
CTR_LOY_UK	Unique			LOYALTY_CARD_NUMBER		ENABLED	11/07/2023	CTR_LOY_UK	

## C. Adding a column

```

1. DESCRIBE customers
2. ALTER TABLE customers
   ADD mobile_phone_number VARCHAR(11);
3. DESCRIBE customers
  
```

1 DESCRIBE customers

2

ResultsExplainDescribeSaved SQLHistory

Object TypeTABLEObjectCUSTOMERS

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	-	-	-	✓	-	-

## D. Dropping a column

1. DESCRIBE customers

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

3. DESCRIBE customers

```
1 DESCRIBE customers
2
```

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	-	-	-	✓	-	-