UTM

UNIVERSITI TEKNOLOGI MALAYSIA

SECD2523 DATABASE

LAB 1 DDL

SECTION: 1

COURSE: BACHELOR OF COMPUTER SCIENCE - BIOINFORMATICS

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GROUP: 4

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DATE OF SUBMISSION: 5th NOVEMBER 2023

PART 1

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

10

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

6

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_fk

5. What are the lowest and highest values that can be stored in the price column for the commission_rate column for the sales_representatives table?

-99 (lowest), 99 (maximum)

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

-99999.99 (lowest), 99999.99 (maximum)

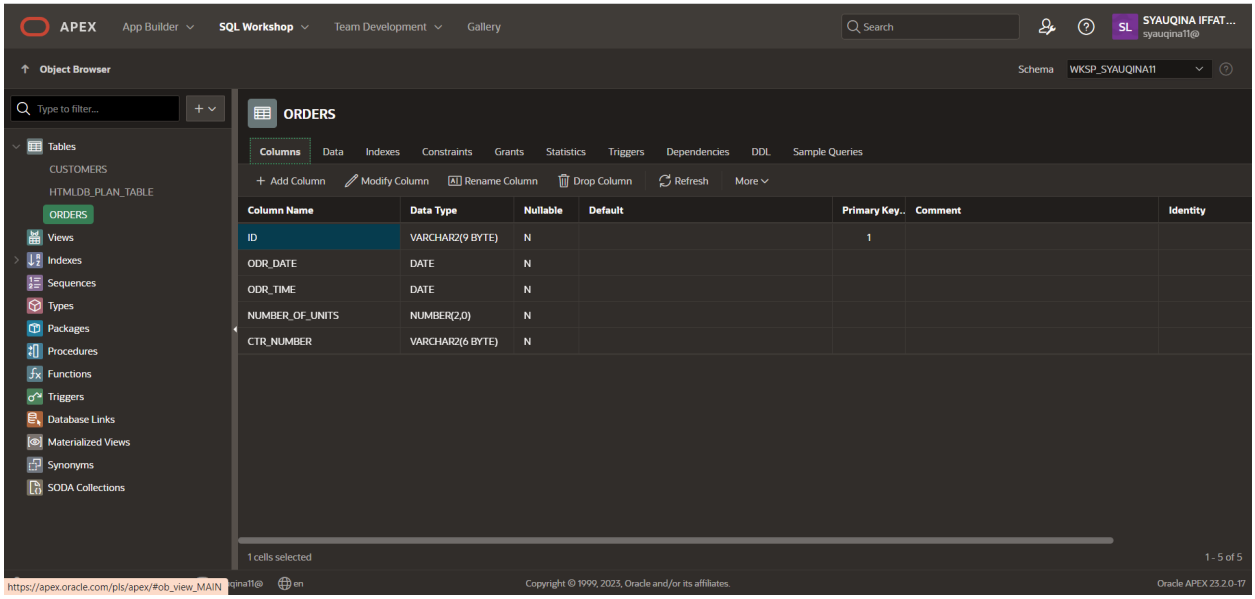
7. What are the 3 columns that make up the primary key for the price_history table?

start_date, start_time, itm_number

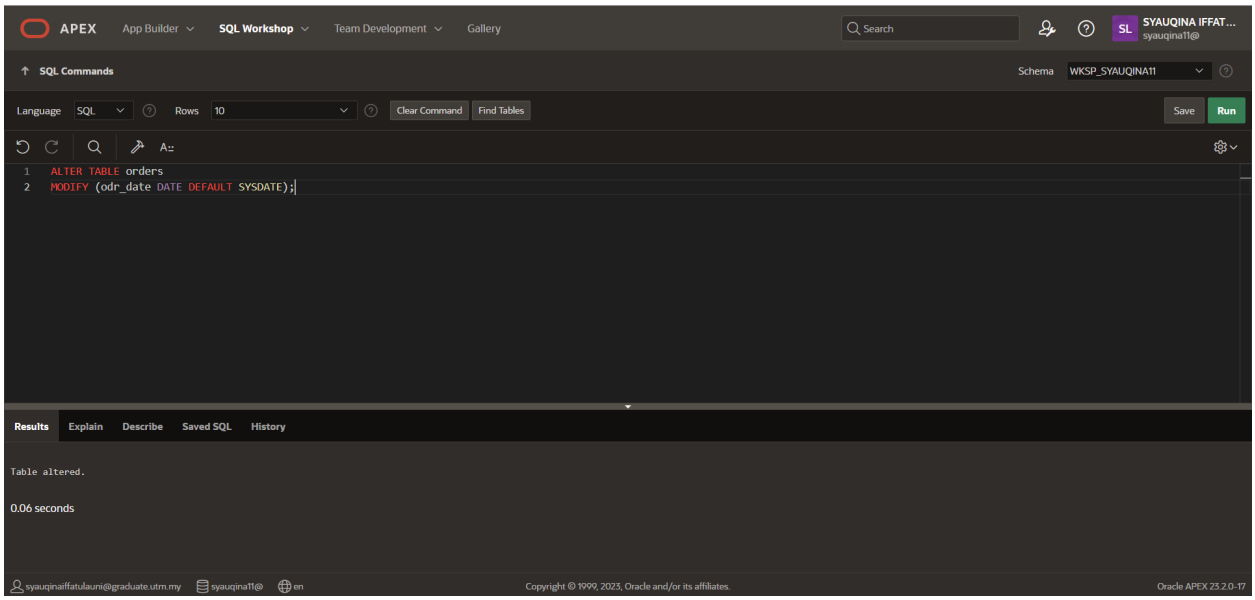
PART 2

Modifying a column:

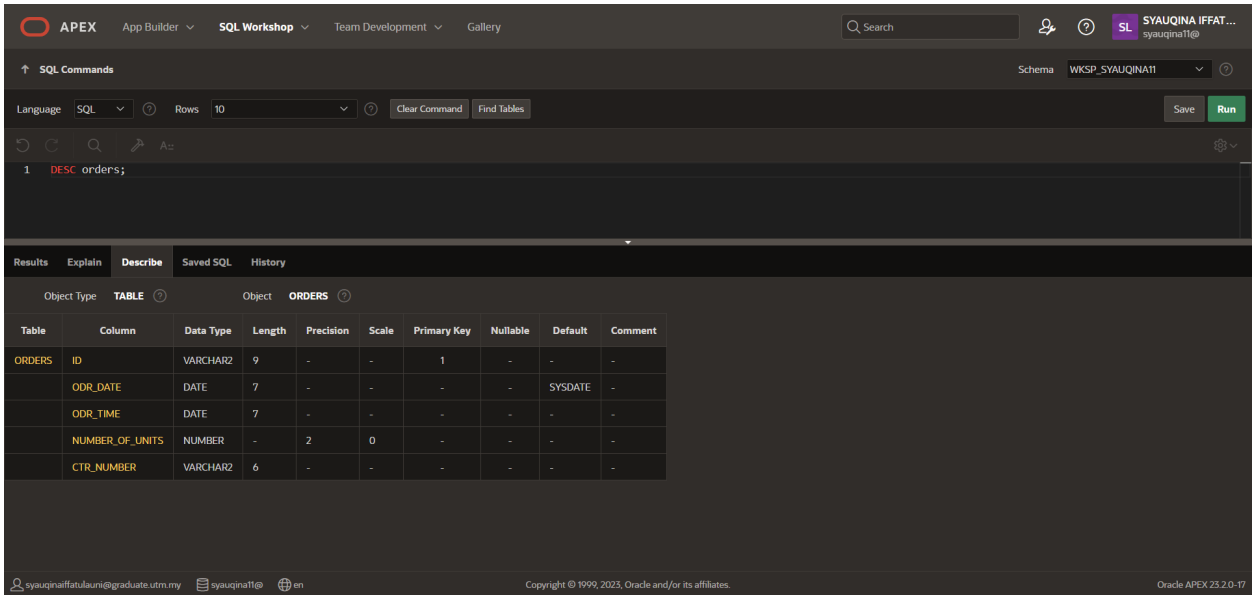
1. Run the DESCRIBE command on the orders table to view its structure



2. **Task**: Add default constraint that will use today's date to assign a value to the odr_date column of the orders table if no data is provided

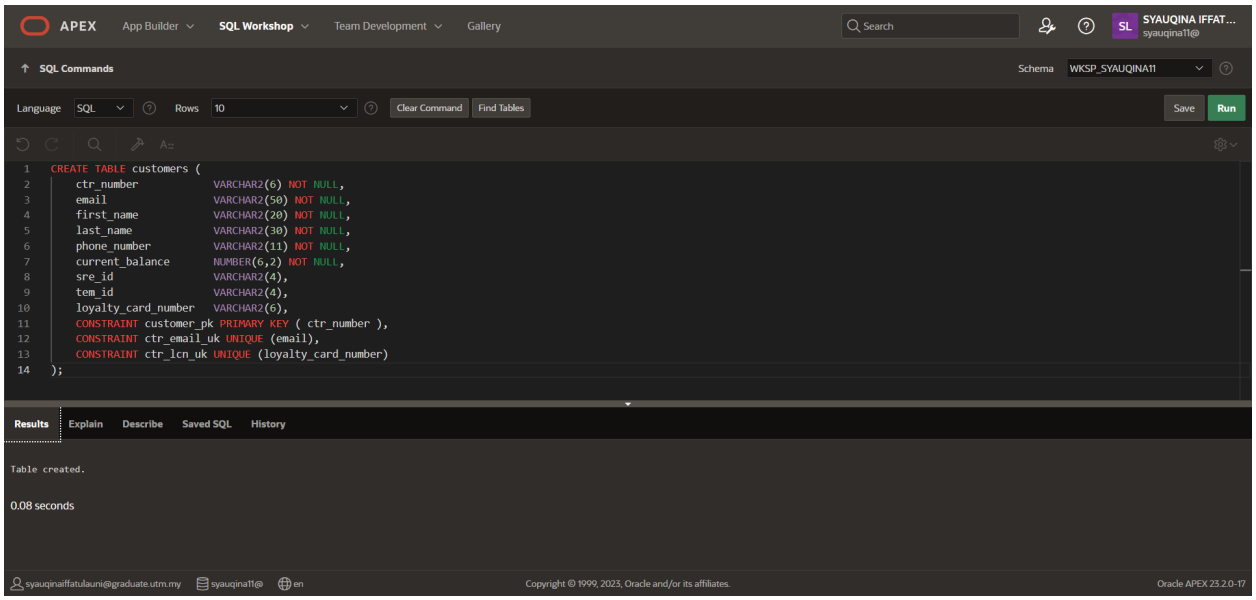


3. Run the DESCRIBE command again to verify the command was successful



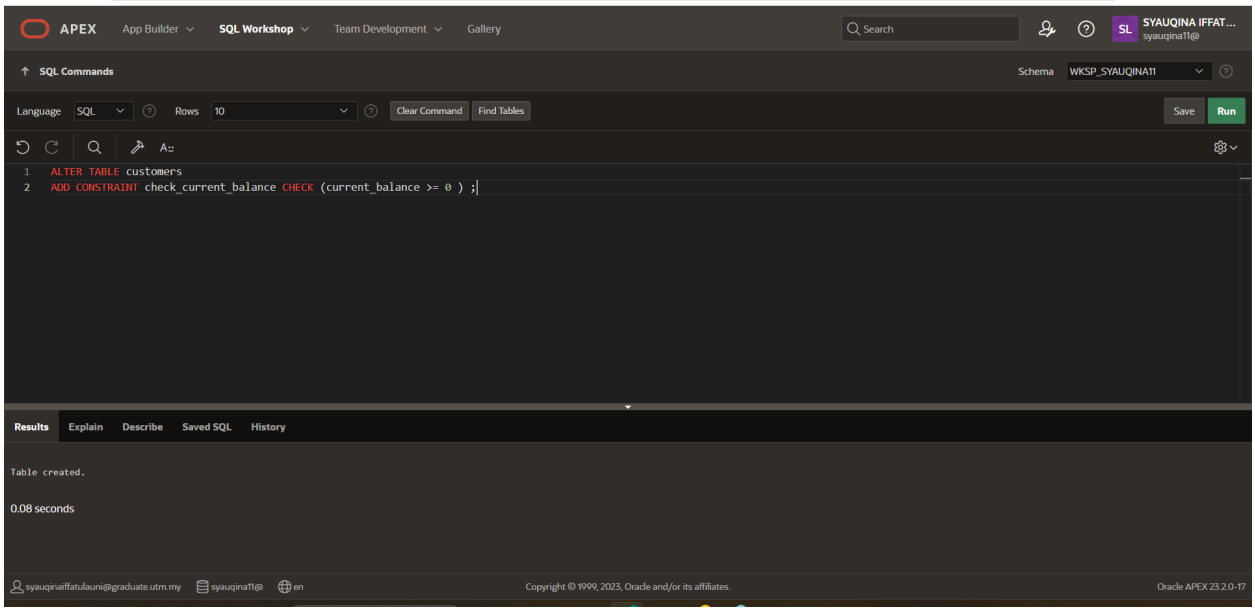
Adding a check constraint

1. Run the DESCRIBE command on the orders table to view its structure

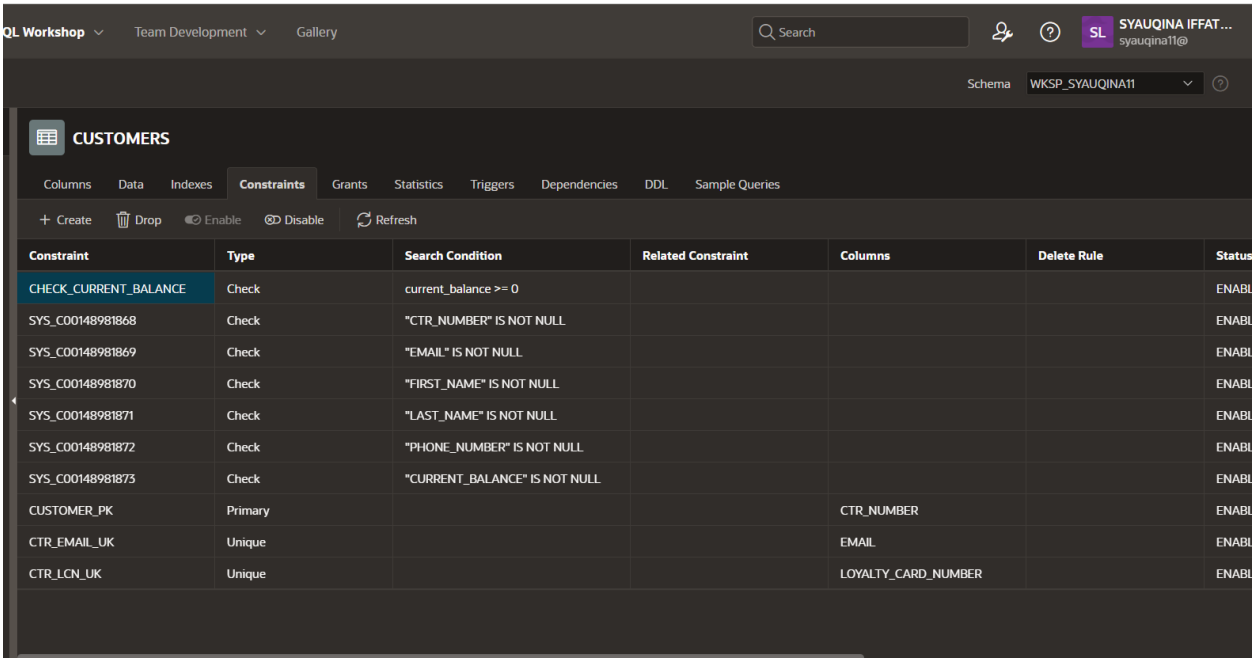


2. **Task**: Add a check constraint that will not allow the customers current balance to go below zero

3. Run the DESCRIBE command again to verify the command was successful



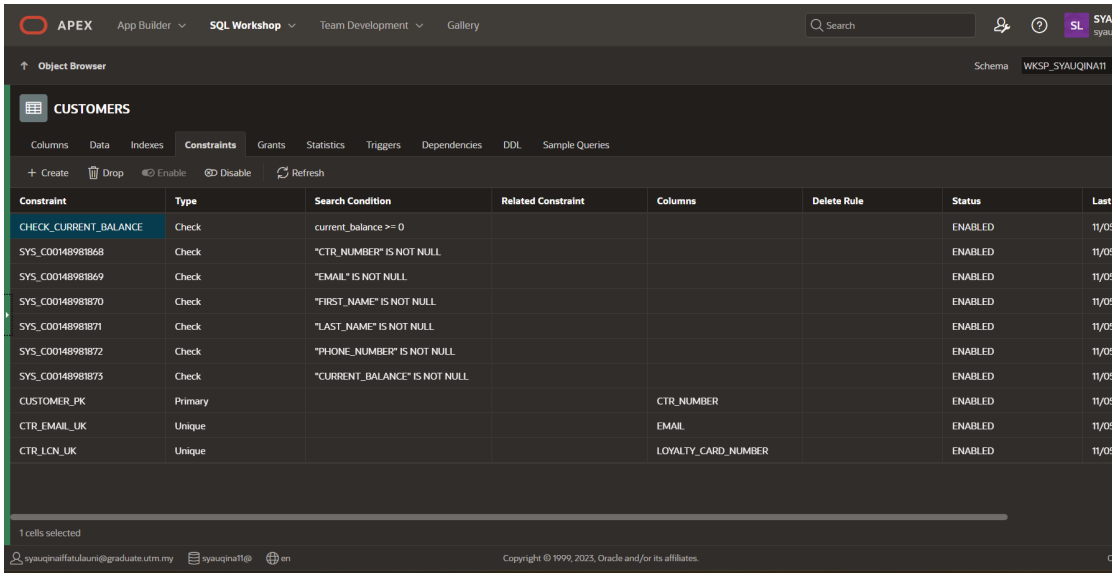
4. A check constraint is not shown in the results of a describe command



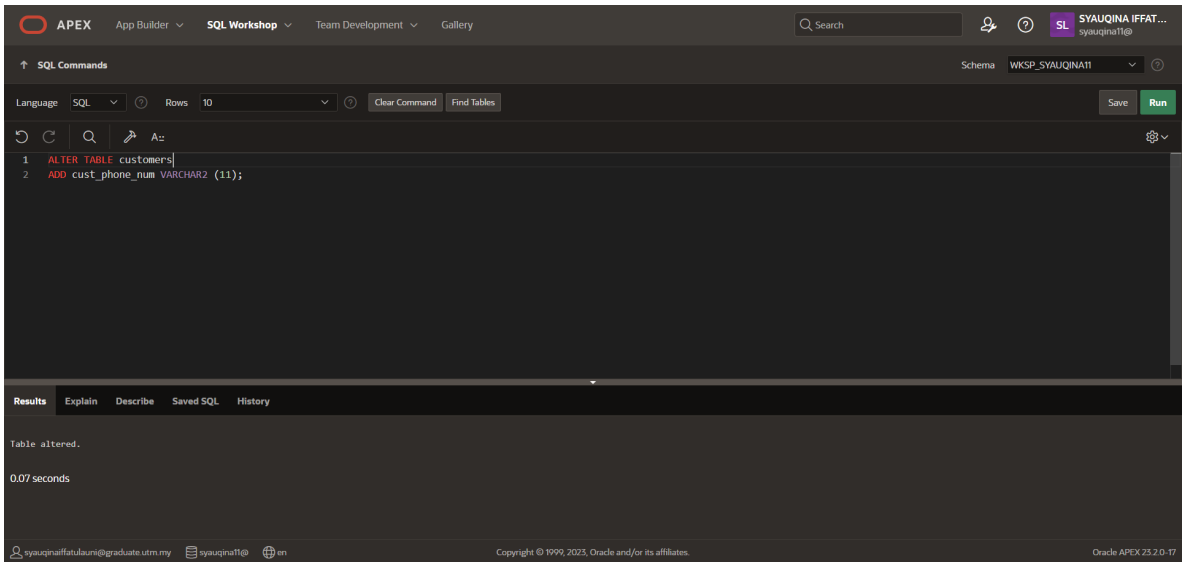
Constraint	Type	Search Condition	Related Constraint	Columns	Delete Rule	Status
CHECK_CURRENT_BALANCE	Check	current_balance >= 0				ENABL
SYS_C0014898186 8	Check	"CTR_NUMBER" IS NOT NULL				ENABL
SYS_C0014898186 9	Check	"EMAIL" IS NOT NULL				ENABL
SYS_C0014898187 0	Check	"FIRST_NAME" IS NOT NULL				ENABL
SYS_C0014898187 1	Check	"LAST_NAME" IS NOT NULL				ENABL
SYS_C0014898187 2	Check	"PHONE_NUMBER" IS NOT NULL				ENABL
SYS_C0014898187 3	Check	"CURRENT_BALANCE" IS NOT NULL				ENABL
CUSTOMER_PK	Primary			CTR_NUMBER		ENABL
CTR_EMAIL_UK	Unique			EMAIL		ENABL
CTR_LCN_UK	Unique			LOYALTY_CARD_NUMBER		ENABL

Adding Column

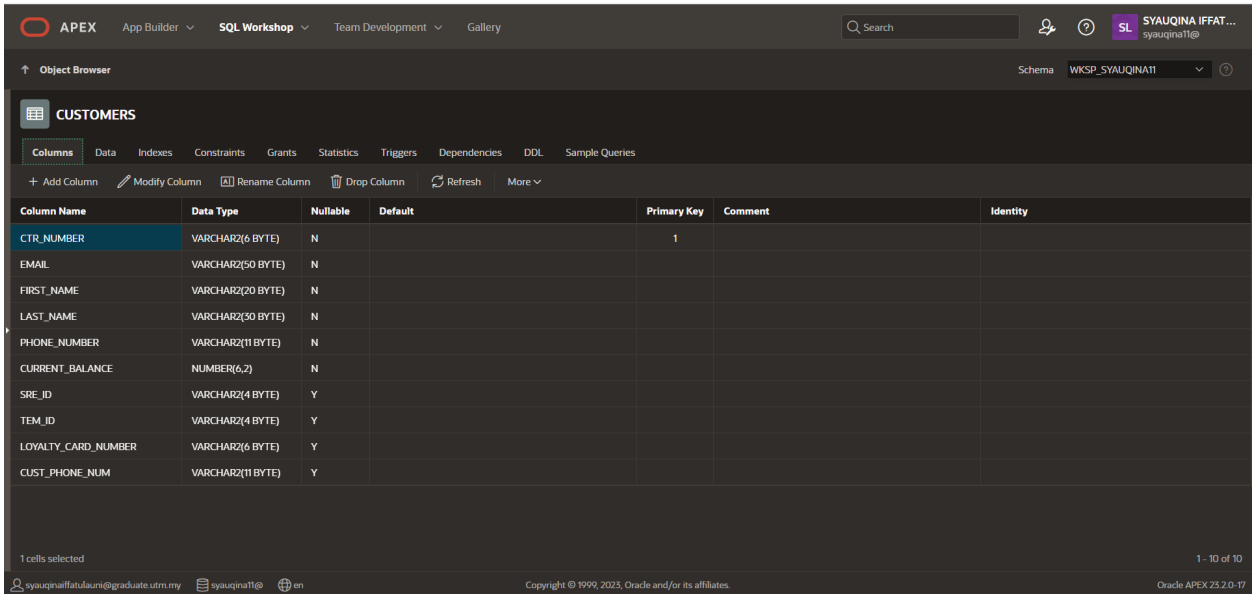
1. Run the DESCRIBE command on the orders table to view its structure



2. **Task**: Add column that will satisfy the clients requirements

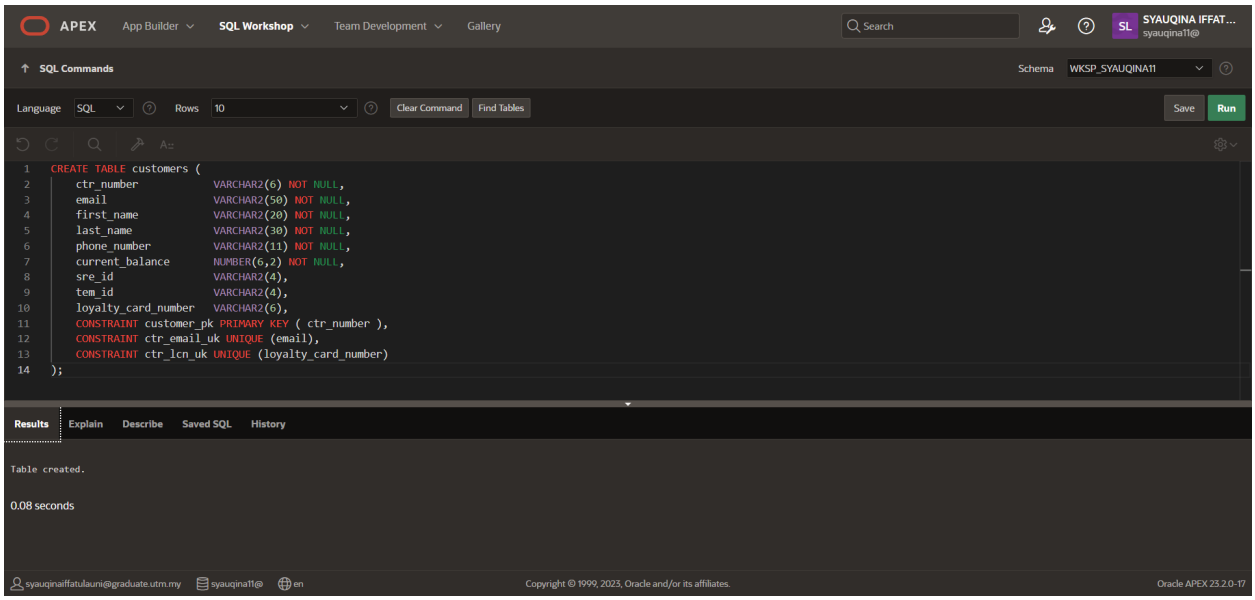


3. Run the DESCRIBE command again to verify the command was successful

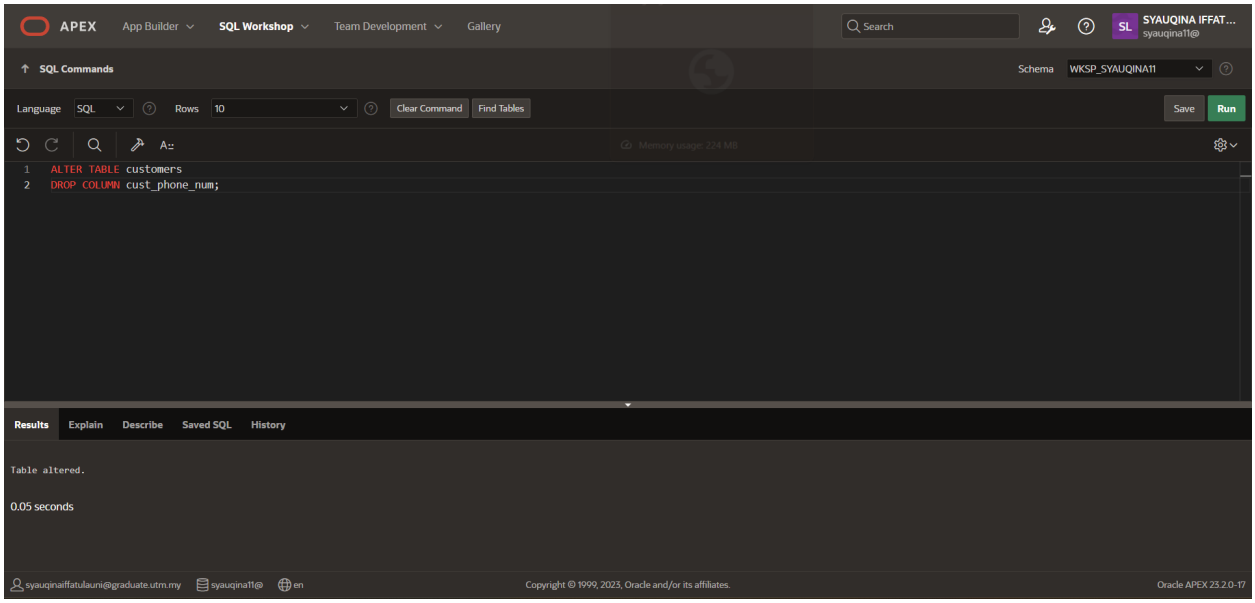
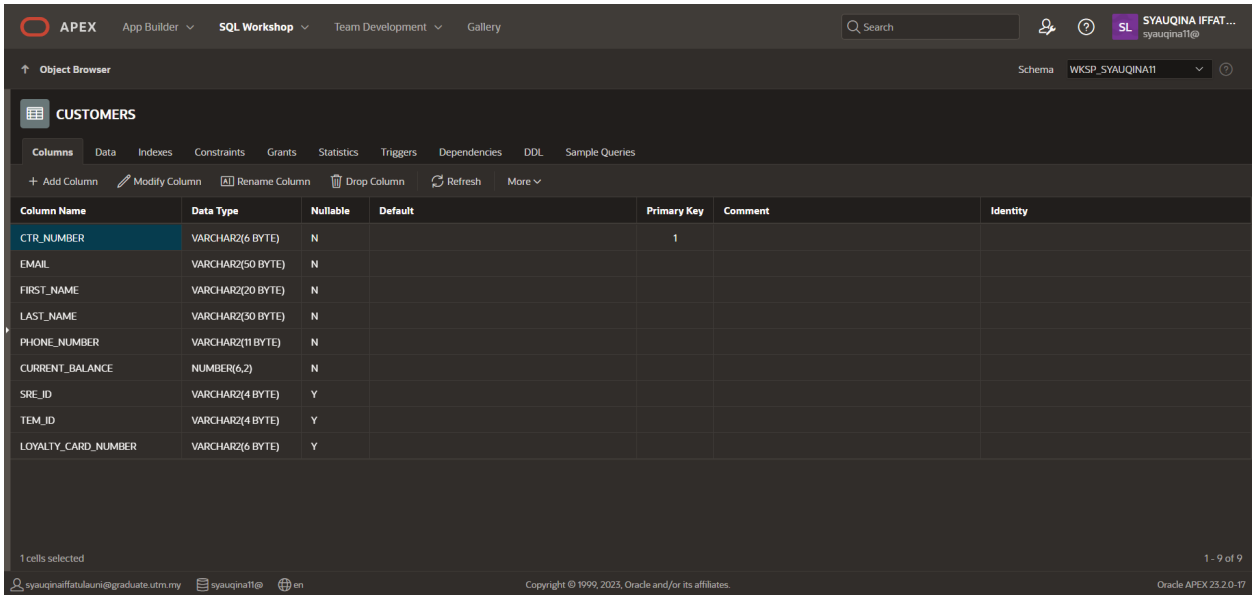


Dropping a column

1. Run the DESCRIBE command on the orders table to view its structure



2. **Task**: Drop column that was created to store the mobile phone number



3. Run the DESCRIBE command again to verify the command was successful