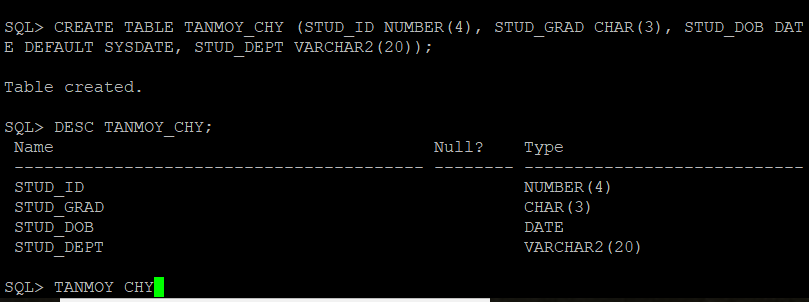
**AIT-524, Class 09, Practice Problems**

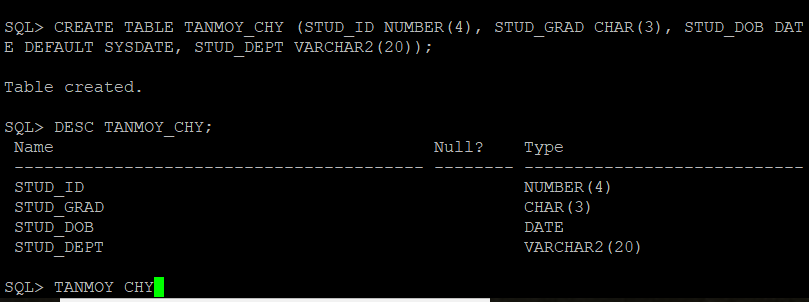
**Tanmoy Chowdhury, G01025893**

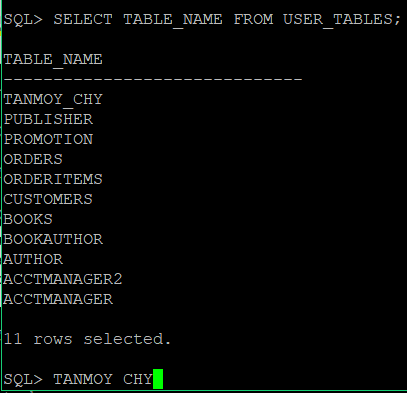
**Questions:**

1. Create a new table using the CREATE TABLE command. Use your first name and your last name for the name of the table (for instance, for John Smith the name of the table will be JOHN\_SMITH). Make sure to include at least four different data types (CHAR, VARCHAR2, NUMBER, DATE) for the columns. Use the DESCRIBE command to verify that the columns have been defined correctly.



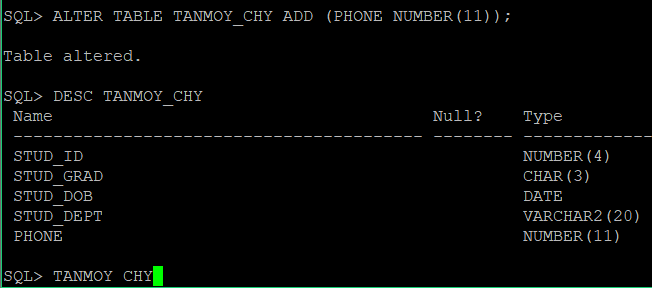
1. Obtain the columns names and data types of the view USER\_TABLES using the DESCRIBE command. Retrieve the names of all the tables of a user’s database tables using the *SELECT table\_name FROM user\_tables;* command. Explain in a complete, coherent sentence what the result means.



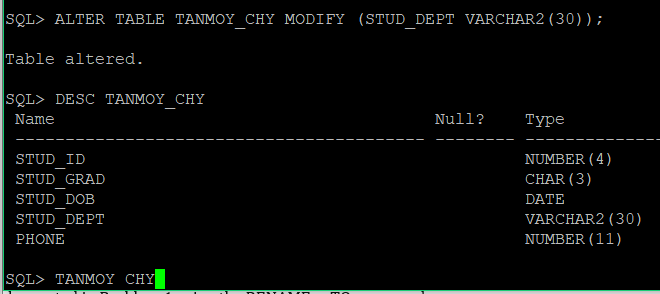


Difference: Describe only shows the table which I created whether the second command shows all the structure of the database.

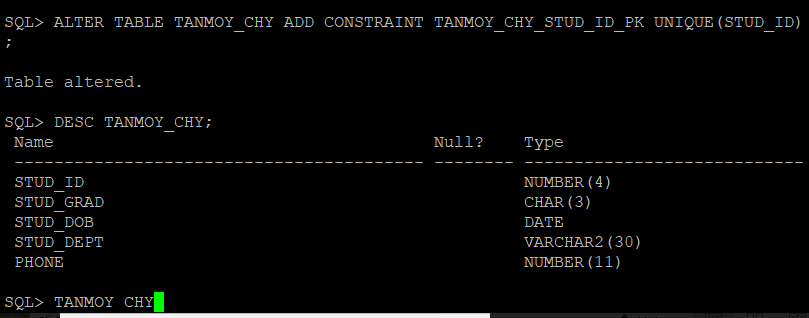
1. Use the ALTER TABLE … ADD command to add a column to the table created in Problem 1.



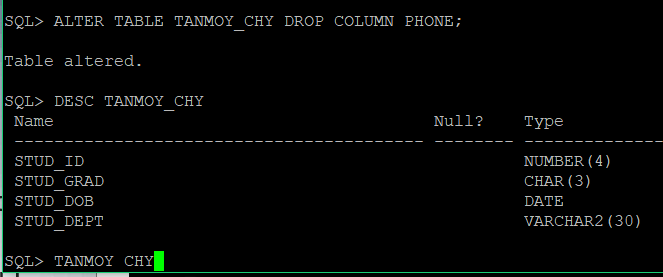
1. Use the ALTER TABLE … MODIFY command to change the size of any column in the table created in Problem 1.



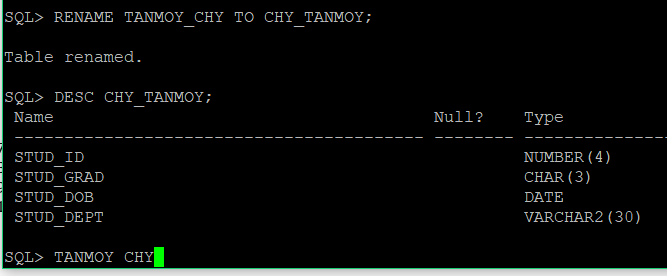
1. Use the ALTER TABLE … ADD CONSTRAINT command to add a new constraint (UNIQUE, CHECK, etc.) to any column in the table created in Problem 1.



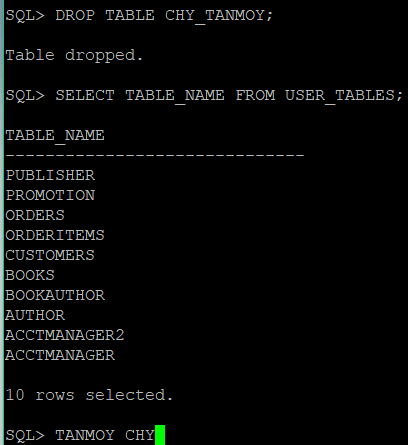
1. Use the ALTER TABLE … DROP COLUMN command to drop a column in the table created in Problem 1.



1. Rename the table created in Problem 1 using the RENAME … TO command.

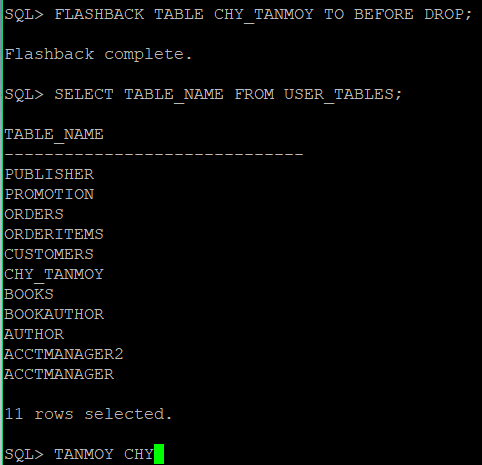


1. Drop the table created in Problem 1 using the DROP TABLE command.



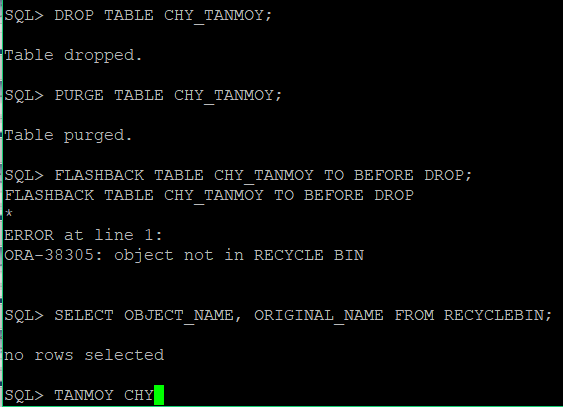
The table is not in the list.

1. Restore the table created in Problem 1 using the FLASHBACK TABLE command.



We see the table in the user table now.

1. Use the DROP TABLE … PURGE command to delete your table permanently. Use the *SELECT object\_name, original\_name FROM recyclebin;*command to confirm that the table is not in the recycle bin anymore.

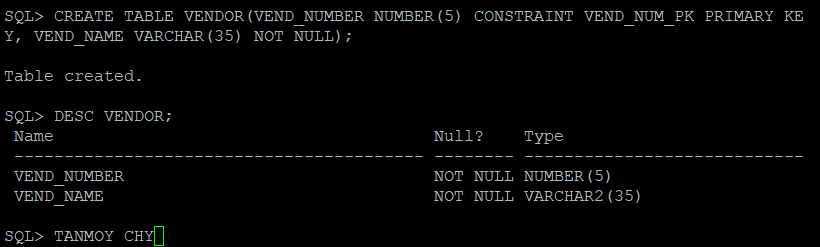


P.T.O.

**Practice Problems:**

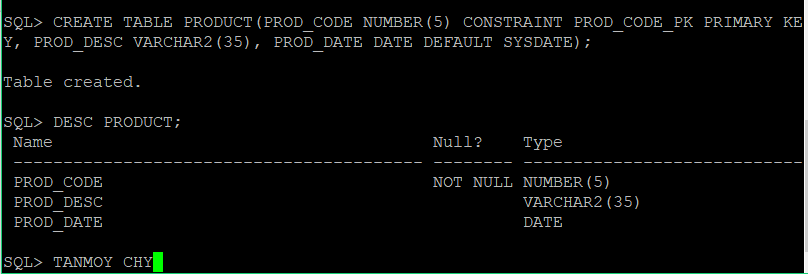
1. Write an SQL code to create the VENDOR table. The information about the VENDOR table is provided below. When creating the table, make sure to include appropriate constraints defined in the description.

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Data Type** | **Constraints** |
| VEND\_NUMBER | NUMBER(5) | Primary Key |
| VEND\_NAME | VARCHAR2(35) | NOT NULL |

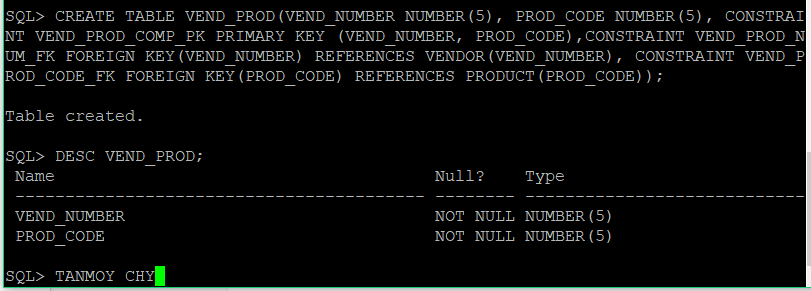


2. Write an SQL code to create the PRODUCT table. The information about the PRODUCT table is provided below. When creating the table, make sure to include appropriate constraints defined in the description.

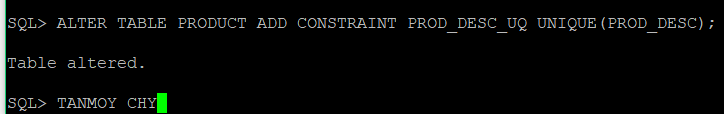
|  |  |  |
| --- | --- | --- |
| **Attribute** | **Data Type** | **Constraints** |
| PROD\_CODE | NUMBER(5) | Primary Key |
| PROD\_DESC | VARCHAR2(35) |  |
| PROD\_DATE | DATE |  |



3. Assuming that each product is manufactured by many vendors and each vendor makes many products, create a bridge table between VENDOR and PRODUCT. When creating the table, make sure to include appropriate constraints (primary key, foreign keys, etc.).



4. Use the ALTER TABLE … ADD CONSTRAINT command to add the UNIQUE constraint to the PROD\_DESC column in the PRODUCT table.



5. Use the ALTER TABLE … ADD CONSTRAINT command to add the CHECK constraint to the PROD\_DATE column to check that a product was added to inventory after January 01, 2017.

