

```

Administrator: Command Prompt

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C:\Windows\System32> cd C:\Users\Tshego Mahlangu\Documents\2025\SEM1\221\ASSIGNMENTS\5

C:\Users\Tshego Mahlangu\Documents\2025\SEM1\221\ASSIGNMENTS\5> git status
fatal: not a git repository (or any of the parent directories): .git

C:\Users\Tshego Mahlangu\Documents\2025\SEM1\221\ASSIGNMENTS\5> git init
Initialized empty Git repository in C:/Users/Tshego Mahlangu/Documents/2025/SEM1/221/ASSIGNMENTS/5/.git/

C:\Users\Tshego Mahlangu\Documents\2025\SEM1\221\ASSIGNMENTS\5>git add
Nothing specified, nothing added.
hint: Maybe you wanted to say 'git add .'?
hint: Disable this message with "git config set advice.addEmptyPathsSpec false"

C:\Users\Tshego Mahlangu\Documents\2025\SEM1\221\ASSIGNMENTS\5>git add .

C:\Users\Tshego Mahlangu\Documents\2025\SEM1\221\ASSIGNMENTS\5>git commit -m "Initial Commit: The initial creation of the sub-document (PA5-RELATIONAL SCHEMA)"
Author identity unknown

*** Please tell me who you are.

Run

    git config --global user.email "you@example.com"
    git config --global user.name "Your Name"

to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got 'Tshego Mahlangu@DESKTOP-NI253K0.(none)')

C:\Users\Tshego Mahlangu\Documents\2025\SEM1\221\ASSIGNMENTS\5>git config user.name "zandil3"

C:\Users\Tshego Mahlangu\Documents\2025\SEM1\221\ASSIGNMENTS\5>git config user.email "u23605032@tuks.co.a"

```

## CREATE THE DATABASE:

```

MariaDB [(none)]> show databases ;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
| u23605032_northwind |
+-----+
5 rows in set (0.130 sec)

MariaDB [(none)]> create database CompareIT_BinaryBandits;
Query OK, 1 row affected (0.021 sec)

MariaDB [(none)]> show databases ;
+-----+
| Database |
+-----+
| compareit_binarybandits |
| information_schema |
| mysql |
| performance_schema |
| sys |
| u23605032_northwind |
+-----+
6 rows in set (0.007 sec)

```

```
C:\Users\Tshego Mahlangu\Documents\2025\SEM1\221\ASSIGNMENTS\5> git add PA5 TASK 4 - RELATIONAL SCHEMA_2

fatal: pathspec 'PA5' did not match any files

C:\Users\Tshego Mahlangu\Documents\2025\SEM1\221\ASSIGNMENTS\5> git add .

C:\Users\Tshego Mahlangu\Documents\2025\SEM1\221\ASSIGNMENTS\5> git commit -m "Commit 2: Creation of database CompareIT_BinaryBandits"
[master (root-commit) 8d803ee] Commit 2: Creation of database CompareIT_BinaryBandits
3 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 COS_221_Assignment 5_2025 - Final.pdf
create mode 100644 PA5 TASK 4 - RELATIONAL SCHEMA.pdf
create mode 100644 PA5 TASK 4 - RELATIONAL SCHEMA_2.pdf
```

CREATE THE TABLES:

```
MariaDB [compareit_binarybandits]> show tables ;
+-----+
| Tables_in_compareit_binarybandits |
+-----+
| brands                             |
| category                           |
| comparisons                         |
| products                           |
| retailer                            |
| review                             |
| user                               |
+-----+
7 rows in set (0.012 sec)
```

INSERTING DATA INTO THE TABLES:

### USER

```
MariaDB [compareit_binarybandits]> select * from user ;
+-----+-----+-----+-----+-----+-----+-----+
| userID | userFName | userSName | userName | password | email | phone_number |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | Alice | Smith | asmith | P0ssw0rd123 | alice.smith@example.com | 0723456789 |
| 2 | Bob | Johnson | bobbyJ | SecurePass!45 | bob.johnson@example.com | 0834567890 |
| 3 | Carol | Williams | carolw | CwSecure#789 | carol.williams@example.com | 0745678901 |
| 4 | David | Brown | dave_b | D@vidPass321 | david.brown@example.com | 0656789012 |
| 5 | Emma | Jones | emma.j | EmmaPW!2024 | emma.jones@example.com | 0767890123 |
| 6 | Frank | Miller | frankm | Fpass_54321 | frank.miller@example.com | 0678901234 |
| 7 | Grace | Davis | graced | Gr@ce456 | grace.davis@example.com | 0789012345 |
| 8 | Hannah | Wilson | hannahw | HannahPW_123 | hannah.wilson@example.com | 0790123456 |
| 9 | Ian | Moore | ianmo | Ian1234! | ian.moore@example.com | 0601234567 |
| 10 | Julia | Taylor | juliaT | JTay!2025 | julia.taylor@example.com | 0612345678 |
+-----+-----+-----+-----+-----+-----+-----+
10 rows in set (0.014 sec)
```

### CATEGORY

```
MariaDB [compareit_binarybandits]> select * from category ;
+-----+-----+
| categoryID | category_name |
+-----+-----+
| 10 | Baby Products |
| 5 | Bakery |
| 6 | Beverages |
| 4 | Dairy |
| 2 | Fresh Produce |
| 1 | Groceries |
| 9 | Health & Beauty |
| 8 | Household Essentials |
| 3 | Meat & Poultry |
| 7 | Snacks |
+-----+-----+
10 rows in set (0.005 sec)

MariaDB [compareit_binarybandits]> SELECT * FROM CATEGORY
-> ORDER BY categoryID ASC;
+-----+-----+
| categoryID | category_name |
+-----+-----+
| 1 | Groceries |
| 2 | Fresh Produce |
| 3 | Meat & Poultry |
| 4 | Dairy |
| 5 | Bakery |
| 6 | Beverages |
| 7 | Snacks |
| 8 | Household Essentials |
| 9 | Health & Beauty |
| 10 | Baby Products |
+-----+-----+
10 rows in set (0.005 sec)
```

### BRANDS

```
MariaDB [compareit_binarybandits]> select * from brands ORDER BY brandID ASC ;
```

brandID	brand_name
1	Clover
2	Albany
3	Coca-Cola
4	Simba
5	Sunlight
6	Koo
7	Rainbow Chicken
8	Freshmark

```
8 rows in set (0.005 sec)
```

RETAILER

```
MariaDB [compareit_binarybandits]> select * from retailer ORDER BY retailerID ASC ;
```

retailerID	retailer_name
1	Pick n Pay
2	Shoprite
3	Woolworths
4	Checkers
5	Spar
6	Makro
7	Game
8	Clicks
9	Dis-Chem
10	Food Lover's Market

```
10 rows in set (0.046 sec)
```

PRODUCTS

```
MariaDB [compareit_binarybandits]> select * from products order by productID asc ;
```

productID	product_name	description	brandID	categoryID	imageUrl	specifications
31	Clover Milk 1L	Fresh and nutritious full cream milk	1	4	https://example.com/clover-milk.jpg	1L full cream milk, best before: 30/06/2025
32	Albany White Bread	Soft and fluffy white bread	2	5	https://example.com/albany-bread.jpg	500g loaf, fresh daily
33	Coca-Cola 500ml	Refreshing soft drink	3	6	https://example.com/coca-cola.jpg	500ml bottle, carbonated
34	Simba Potato Chips	Delicious crispy potato chips	4	7	https://example.com/simba-chips.jpg	100g pack, various flavors
35	Sunlight Dishwashing Liquid	Powerful dishwashing liquid	5	8	https://example.com/sunlight-dish.jpg	750ml, removes grease easily
36	Nivea Soft Cream	Moisturizing cream for soft skin	6	9	https://example.com/nivea-soft.jpg	200ml, for all skin types
37	Huggies Ultra Dry Diapers	Soft and absorbent baby diapers	7	10	https://example.com/huggies.jpg	Size 4, pack of 24
38	Koo Baked Beans	Delicious baked beans in tomato sauce	8	1	https://example.com/koo-beans.jpg	410g can, ready to eat

```
8 rows in set (0.071 sec)
```

REVIEW

```
MariaDB [compareit_binarybandits]> select * from review ;
```

reviewID	userID	productID	rating	review_date	comment
1	1	31	5	2025-04-01	Excellent quality milk. Very fresh.
2	2	32	4	2025-04-02	Tastes good but packaging could be better.
3	3	33	5	2025-04-03	Refreshing drink and always cold at the store.
4	4	34	3	2025-04-04	Chips were tasty but a bit salty for my liking.
5	5	35	4	2025-04-05	Great on greasy pans!
6	6	36	5	2025-04-06	Left my skin super soft, smells nice too.
7	7	37	2	2025-04-07	Some leaks in the packaging - disappointed.
8	8	38	4	2025-04-08	Goes well with toast, a bit sweet.
9	2	31	3	2025-04-09	Milk was okay but a little warm.
10	1	33	5	2025-04-10	My favorite soda hands down!

```
10 rows in set (0.012 sec)
```

COMPARISONS

```
MariaDB [compareit_binarybandits]> select * from comparisons ;
```

retailerID	productID	price
1	31	24.99
1	32	18.75
1	33	12.50
1	34	15.00
2	31	22.50
2	32	19.99
2	33	11.99
3	31	26.00
3	32	20.00
3	33	13.45

```
10 rows in set (0.003 sec)
```

```
MariaDB [compareit_binarybandits]>
```