Assignment Module-16: Laravel Migration Concepts

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Task 1:

Create a new Laravel project named "MigrationAssignment" using the Laravel commandline interface.

Command for create project composer create-project laravel/laravel MigrationAssignment

Task 2:

Within the project, create a new migration file named "create_products_table" that will be responsible for creating a table called "products" in the database. The "products" table should have the following columns:

id: an auto-incrementing integer and primary key.
name: a string column to store the product name.
price: a decimal column to store the product price.
description: a text column to store the product description.
created_at: a timestamp column to store the creation date and time.
updated_at: a timestamp column to store the last update date and time.

Task 3:

After creating the migration file, run the migration to create the "products" table in the database.

```
migration run command:
php artisan migrate
```

Task 4:

Modify the existing migration file "create_products_table" to add a new column called "quantity" to the "products" table. The "quantity" column should be an integer column and allow null values.

Task 5:

Create a new migration file named "add_category_to_products_table" that will be responsible for adding a new column called "category" to the "products" table. The "category" column should be a string column with a maximum length of 50 characters.

Task 6:

After creating the new migration file, run the migration to add the "category" column to the "products" table.

```
migration run command:
php artisan migrate
```

Create a new migration file named "create_orders_table" that will be responsible for creating a table called "orders" in the database. The "orders" table should have the following columns:

id: an auto-incrementing integer and primary key.

product_id: an unsigned integer column to establish a foreign key relationship with the "id" column of the "products" table.

quantity: an integer column to store the quantity of products ordered.

created_at: a timestamp column to store the creation date and time.

updated at: a timestamp column to store the last update date and time.

Task 8:

After creating the migration file for the "orders" table, run the migration to create the "orders" table in the database.

migration run command:

php artisan migrate