Databases 2 relational assignment by Vikas Mackevicius (C21710971)

ERD was created with the help of Kacper (C21471486) and Euan (C21493446).

Logical ERD:

A diagram of a computer code

Description automatically generated with medium confidence

Relational ERD:

A diagram of a bike repair

Description automatically generated

One customer can have many bikes.

One bike can have different new models.

One supplier can produce different new models.

One bike may require multiple repairs.

Each repair may require multiple parts

One part can be made out of many smaller parts – hence it links itself.

My role in the database is the receptionist.

As a receptionist I am able to:

Update a\_bike table – change bike’s status

Oversee a\_bike\_parts, edit if the part is used or order more parts.

Have all permissions for the a\_customers as I would take new orders, change them or delete then when no longer needed.

I would also communicate with new suppliers regarding new models therefore I have all permissions for a\_new\_model and a\_suppliers.

For my role I made a procedure which updates bike’s status by using it’s ID.

I designed a trigger which works when the bike status is entered incorrectly or it fails to satisfy the criteria; status (R, F, C).