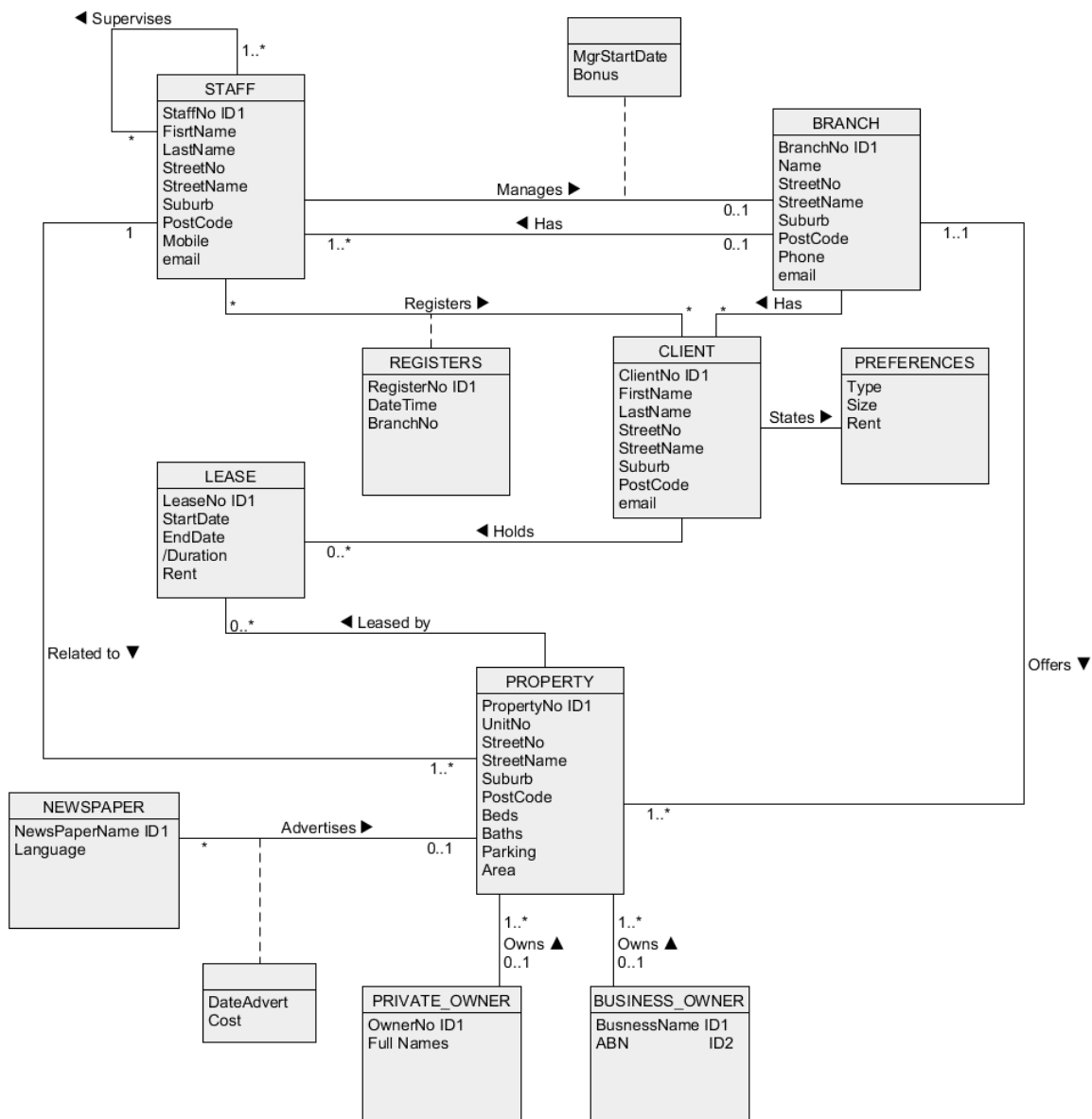Student Number: Student Name:

Student Number: 8137225   Student Name: Matthew Bergamini

Task 2: A Realestate Rental System

Step 1: Create text for classes of objects

This is a database for a real estate listing system.

There are are number of branches of this real estate, operating in one country, identified by a branch number, a name, street number, street name, suburb, postcode, with its own phone number and email address.

A branch has a number of staff who manage a branch, and who supervise the staff, modified by a Staff number, first name, last name, street number/name, suburb, post code, mobile number and email address. Staff register a client.

A branch also has clients who are identified by client numbers, fist and last name, street number, street name, suburb, post code, and email.

Student Number: Student Name:

A client holds a lease, contains a lease number id, start date, end date, duration and rent amount. A client states their preferences.

A branch offers a property that has a property number id, unit number, street number, street name, suburb, post code, beds, baths, parking and area. A property is leased by a lease.

A private owner owns a property, is identified by an owner number and a full name

A business owner also owns a property and is identified by a business name and a ABN

A newspaper advertises a property, is identified by a newspaper name and language.

Step 2: Create text for associations and association classes

Staff are associated with a branch, and clients. and are related to a property.

Clients are associated with a property through a lease, they are associated with a preferences.

A newspaper is associated with a property.

A private owner owns a property.

A business owner owns a property.

Step 3: Create text for attributes and link attributes

Attributes for staff include; StaffNo, FirstName, LastName, StreetNo, StreetName, Suburb, PostCode, Mobile, Email

Attributes for Branch include, BranchNo, Name, StreetNo, StreetName, Suburb, PostCode, Phone, email

Attributes for client include, ClientNo, FirstName, LastName, StreetNo, StreetName, Suburb, PostCode, email

Attributes for Lease include, LeaseNo, StartDate, EndDate, Duration, Rent

Attributes for Property include. PropertyNo, UnitNo, StreetNo, StreetName, Suburb, PostCode, Beds, Baths, Parking, Area.

Attributes for Private Owner include, OwnerNo, Full Names

Attributes for Business Owner include, BusinessName, ABN

Student Number: Student Name:

Step 4: Create text for identifiers and qualifications

Staff is identified by a unique StaffNumber

Branch is identified by a unique BranchNumber

Registers are identified by a unique RegisterNumber

Clients are identified by a unique ClientNumber

Properties are identified by a unique PropertyNumber

Newspapers are identified by a unique NewPaperName

Private Owners are identified by a unique OwnerNumber

Business Owners are identified by a unique BusinessName and ABN

Step 5: Create text for generalizations (if shown in diagram)

Between Staff and Branch is MgrStartDate, Bonus

Between Staff and Client is registers containing, RegristerNo, DateTime, BranchNo

Client has Preferences has Type, Size, Rent

Between Newspaper and property is DateAdvert, Cost