**Question 1**

Below is a collection of ‘DreamHouse’ company leases in which two leases for two different clients are shown.

Clients can rent a property only once. However, they can rent many properties but one property at any given time.

ClientRental

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **clientNo** | **cName** | **propertyNo** | **pAddress** | **rentStart** | **rentFinish** | **Montlyrent** | **ownerNo** | **oName** |
| CR67 | John Kay | PG4  PG16 | 6 Lawrence, Glasgow  5 Nova St, Glasgow | 1-Jul-17  1-Sep-18 | 31-Aug-18  1-Sep-19 | 350  450 | C040  C093 | Tina  Tom |
| CR56 | Aline Stewart | PG4  PG36  PG16 | 6 Lawrence, Glasgow  2 Monar St, Glasgow  5 Nova St, Glasgow | 1-Sep-16  10-Oct-17  1-Nov-19 | 10-Jun-17  1-Dec-18  10-Aug-20 | 350  375  450 | C040  C093  C093 | Tina  Tom  Tom |

This report needs to be normalised

1. Complete the normalisation of the project management report details by producing entities in third normal form (3NF).
2. Construct an entity-relationship diagram to represent the 3NF model. You should indicate the primary and foreign keys of each entity.
3. Model the normalised database using Oracle Datamodeller or Enterprise Architect.

**Question 2**

The table below shows list of dentist/patient appointment data.

A patient is given an appointment for a specific date and time with a dentist located at a particular surgery. On each day of patient appointments, a dentist is allocated to a specific surgery for that day.

Dentist appointment data

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **staffNo** | **dentistName** | **patNo** | **patName** | **Appointment date time** | **surgeryNo** | **surgeryName** |
| S1011 | Tony Smith | P100 | Gillian White | 12-Sep-18 10.00 | S15 | Keyhole Surgery |
| S1011 | Tony Smith | P105 | Jill Bell | 12-Sep-18 12.00 | S15 | Keyhole Surgery |
| S1032 | Robin Pen | P108 | Mac Shan | 14-Sep-18 12.00 | S13 | Laser treatment |
| S1032 | Robin Pen | P105 | Jill Bell | 14-Sep-18 14.00 | S13 | Laser Treatment |

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