**BCDE214 Database Administration Assignment 2– Portfolio**

**Appendix B Scripts, Stored Procedures and Triggers**

**Due Date:** Friday 29 October; 11:59 p.m.

**Total marks Available:** 35

**Views**

Write scripts to create the following views:

* A view that shows each vaccination place, with the total number of vaccinations that could happen each day, and the number of vaccinations actually happening or booked each day.
* A view showing all people that have missed a booking, and do not have a later booking. We will want to contact these people, so include names and contact details.
* A view that can be used to show people broken down by age in decades as at the date of their first vaccination. Only show people that have been vaccinated.
* A view showing the number of sessions and the number of vaccines all vaccinators have done. Include those vaccinators that have yet to vaccinate anybody.

**Triggers**

Write scripts to create the following triggers:

* When someone cancels an appointment, the table for Old Appointments is populated, with the reason being “Changed appointment.”

**Stored Procedures**

Write and test the following stored procedures:

* A stored procedure that will take a date as an input. This day must be in the past. The stored procedure will find anybody who has had a vaccination on the given day and check that they do not have a future booking of the same vaccination number. Any future booking will be cancelled.
* A stored procedure that will add a person to a booking slot making sure that:
  + If it is their first vaccination, they haven’t already had a first vaccination
  + If it is their second vaccination, it is more than three weeks from their first vaccination, and they don’t have a double up booking.

**Marking Schedule:**

There are fifty marks total.

**Views** **Sixteen** marks total.

**Four** views, each worth **four** marks.

0: No attempt, or very little attempt made

1: A syntactically correct attempt, that does not completely fulfill the requirement

2: A view that fulfills the requirement

4: A view that fulfills the requirement, **and** test script(s) provided that shows that the view is working for data that changes affecting the view, and data changes that does not affect the view.

**Triggers** **Four** marks total.

**Two** triggers cases provided, worth **two** marks.

0: No attempt, or very little attempt made

1: A syntactically correct attempt, that does not completely fulfill the requirement

2: A trigger or triggers that fulfills the requirement

**Stored Procedures** **Fifteen** marks total.

**Three** stored procedures, each worth **ten** marks

0: No attempt, or very little attempt made

2: A syntactically correct attempt, that does not completely fulfill the requirement

4: A stored procedure that fulfills the requirement

5: A stored procedure that elegantly fulfills the requirement, is well documented and flexible.

6: A stored procedure that elegantly fulfills the requirement, is well documented and flexible and provides test data and scripts that proves the stored procedure works.

7.5: A stored procedure that elegantly fulfills the requirement, is well documented and flexible and provides test data and scripts that proves the stored procedure works. The stored procedure also fails gracefully for incorrect data, and test cases are provided to show this.