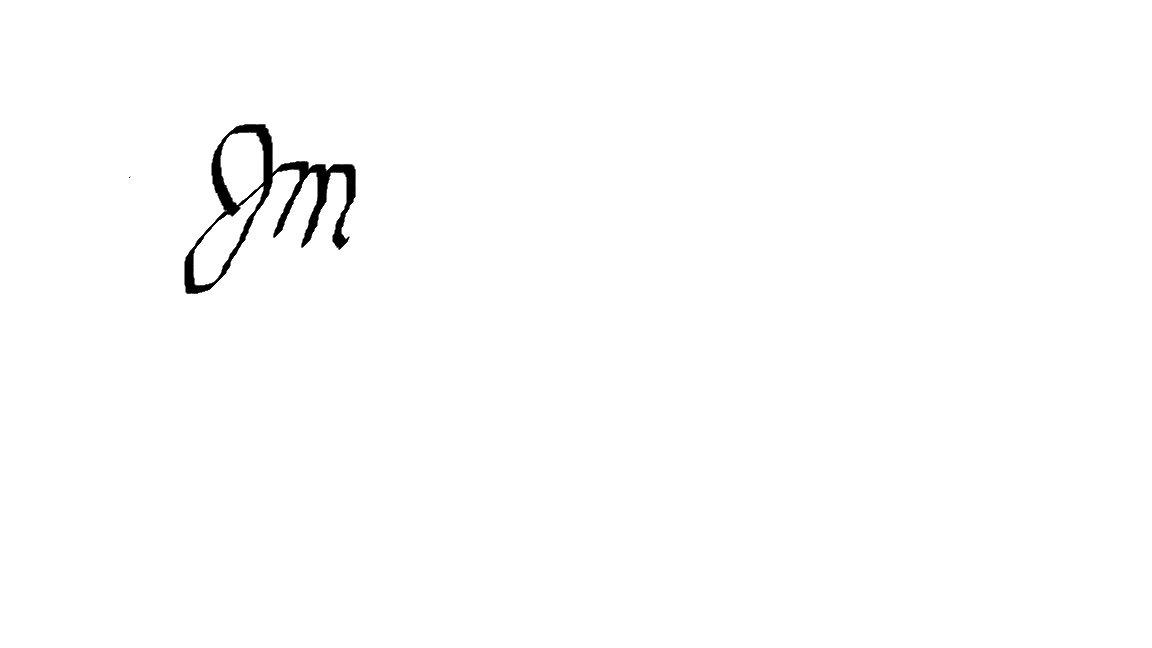
**December 5 2018 DBS201 Final Assignment**

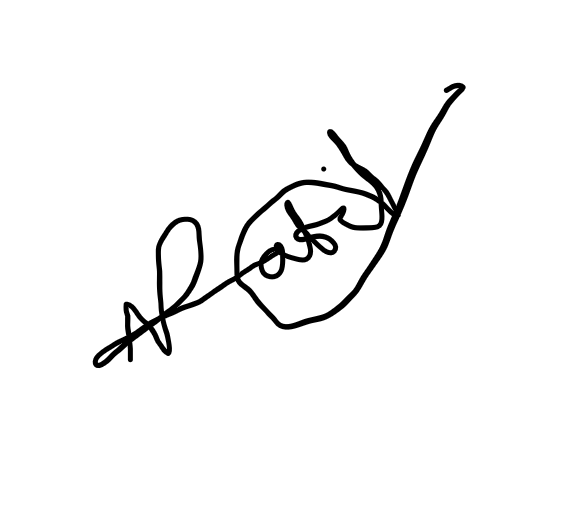
**Student Assignment Submission Form**

I/we declare that the attached assignment is my/our own work in accordance with the Seneca Academic Policy. No part of this assignment has been copied manually or electronically from any other source (including web sites) or distributed to other students

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2 Jonathan Mani (123280182) 

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**USER VIEW 1 (Complete)**

UNF:

INVOICE[**invoice\_id,** invoice\_date, team\_id, cust\_id, cust\_fname, cust\_lname, cust\_street, cust\_city, cust\_postalcode, equipment, service\_id, service\_desc, hourly\_charge, duration, invoice\_total]

1NF:

INVOICE[**invoice\_id, service\_id,** invoice\_date, team\_id, cust\_id, cust\_fname, cust\_lname, cust\_street, cust\_city, cust\_postalcode, equipment, service\_desc, hourly\_charge, duration, invoice\_total]

2NF:

INVOICE[**invoice\_id,** invoice\_date, team\_id, cust\_id, cust\_fname, cust\_lname, cust\_street, cust\_city, cust\_postalcode, total\_charge]

SERVICE[**service\_id,** service\_desc]

INVOICESERVICE[**invoice\_id(FK), service\_id(FK),** hourly\_charge, duration]

EQUIPMENT[**equip\_id,** equip\_desc]

INVOICEEQUIPMENT[**invoice\_id(FK), equip\_id(FK)**]

3NF:

INVOICE[**invoice\_id,** invoice\_date,total\_charge, **team\_id(FK), cust\_id(FK), address\_id(FK)**]

CUSTOMER[**cust\_id,** cust\_fname, cust\_lname]

ADDRESS[**address\_id,** street\_no, street\_name, postal\_code, city]

CUSTOMERADDRESS[**cust\_id(FK), address\_id(FK)**]

SERVICE[**service\_id,** service\_desc]

INVOICESERVICE[**invoice\_id(FK), service\_id(FK),** hourly\_charge, duration]

EQUIPMENT[**equip\_id,** equip\_desc]

INVOICEEQUIPMENT[**invoice\_id(FK), equip\_id(FK)**]

TEAM[**team\_id,** team\_desc]

**USER VIEW 2 (Complete)**

UNF:

EMPLOYEE[**emp\_id**, emp\_fname, emp\_lname, emp\_ohip, emp\_phone, position, start\_date, skill, team\_id, team\_desc]

1NF:

EMPLOYEESKILL[**emp\_id, skill\_id**, emp\_fname, emp\_lname, emp\_ohip, emp\_phone, position, start\_date, skill\_desc, team\_id, team\_desc]

2NF:

SKILL[**skill\_id**, skill\_desc]

EMPLOYEESKILL[**emp\_id(FK), skill\_id(FK)**]

EMPLOYEE[**emp\_id**, emp\_fname, emp\_lname, emp\_ohip, emp\_phone, position, start\_date, team\_id, team\_desc]

3NF:

TEAM[**team\_id,** team\_desc]

TEAMEMPLOYEE[**team\_id(FK), emp\_id(FK)**, position, start\_date]

EMPLOYEE[**emp\_id**, emp\_fname, emp\_lname, emp\_phone, emp\_ohip]

EMPLOYEESKILL[**emp\_id(FK), skill\_id(FK)**]

SKILL[**skill\_id**, skill\_desc]

**USER VIEW 3 (Complete)**

UNF:

INVOICE [(**invoice\_id,** invoice\_date, sale\_charge, sale\_qty, salesrep\_id, salesrep\_fname, salesrep\_lname, cust\_id), prod\_class, prod\_id, product\_desc, ]

1NF:

INVOICE [**invoice\_id, prod\_id, cust\_id,** invoice\_date, prod\_class, product\_desc, sale\_charge, sale\_qty, salesrep\_id, salesrep\_fname, salesrep\_lname]

2NF:

PRODUCT[**prod\_id,** prod\_desc, prod\_class]

CUSTOMER[**cust\_id,** cust\_fname, cust\_lname]

INVOICE[**invoice\_id,** invoice\_date, salesrep\_id, salesrep\_fname, salesrep\_lname, **cust\_id(FK)]**

INVOICEPRODUCT[**cust\_id(FK), product\_id(FK),** sale\_qty, sale\_charge]

3NF:

CLASS[**class\_id**, class\_name]

PRODUCT[**prod\_id,** prod\_desc, **class\_id(FK)]**

CUSTOMER[**cust\_id,** cust\_fname, cust\_lname]

INVOICE[**invoice\_id,** invoice\_date, **cust\_id(FK), salesrep\_id(FK)**]

INVOICEPRODUCT[**invoice\_id(FK), product\_id(FK),** sale\_qty, sale\_charge]

SALESREP[**salesrep\_id,** salesrep\_fname, salesrep\_lname]

**USER VIEW 4 (Complete)**

UNF:

PRODUCT[**product\_id,** product\_class, product\_class, product\_description, product\_cost, product\_markup]

1NF:

PRODUCT[**product\_id, product\_class,** product\_description, product\_classification, product\_cost, product\_markup]

2NF + 3NF:

PRODUCT [**product\_id**, product\_description, product\_cost, product\_markup, **class\_id(FK**)]

CLASS [**class\_id**, class\_name]

**USER VIEW 5 (Complete)**

UNF:

PRODUCT[**(product\_id**, product\_desc, product\_qty, aisle\_no), supplier]

1NF:

PRODUCTSUPPLIER[**product\_id, supplier\_id**, product\_desc, product\_qty, aisle\_no, supplier\_name]

2NF + 3NF:

PRODUCT[**product\_id**, product\_desc, product\_qty, aisle\_no, **supplier\_id(FK)**]

SUPPLIER[**supplier\_id**, supplier\_name]

**Total Database (Entity List):**

*\*Things in* ***red*** *are not required\**

SUPPLIER[**supplier\_id**, supplier\_name]

CLASS [**class\_id**, class\_name]

PRODUCT[**prod\_id,** prod\_desc, prod\_cost, prod\_markup, prod\_qty, aisle\_no, **supplier\_id(FK), class\_id(FK)]**

INVOICEPRODUCT[**invoice\_id(FK), prod\_id(FK),** sale\_qty, sale\_charge]

SALESREP[**salesrep\_id,** salesrep\_fname, salesrep\_lname]

TEAM[**team\_id,** team\_desc]

TEAMEMPLOYEE[**team\_id(FK), emp\_id(FK)**, position, start\_date]

EMPLOYEE[**emp\_id**, emp\_fname, emp\_lname, emp\_phone, emp\_ohip]

EMPLOYEESKILL[**emp\_id(FK), skill\_id(FK)**]

SKILL[**skill\_id**, skill\_desc]

INVOICE[**invoice\_id,** invoice\_date,total\_charge, **team\_id(FK), cust\_id(FK), address\_id(FK), salesrep\_id(FK)**]

CUSTOMER[**cust\_id,** cust\_fname, cust\_lname]

ADDRESS[**address\_id,** street\_no, street\_name, postal\_code, city]

CUSTOMERADDRESS[**cust\_id(FK), address\_id(FK)**]

SERVICE[**service\_id,** service\_desc]

INVOICESERVICE[**invoice\_id(FK), service\_id(FK),** hourly\_charge, duration]

EQUIPMENT[**equip\_id,** equip\_desc]

INVOICEEQUIPMENT[**invoice\_id(FK), equip\_id(FK)**]

Note:

Remove all public

Grant all to members, prof

b40