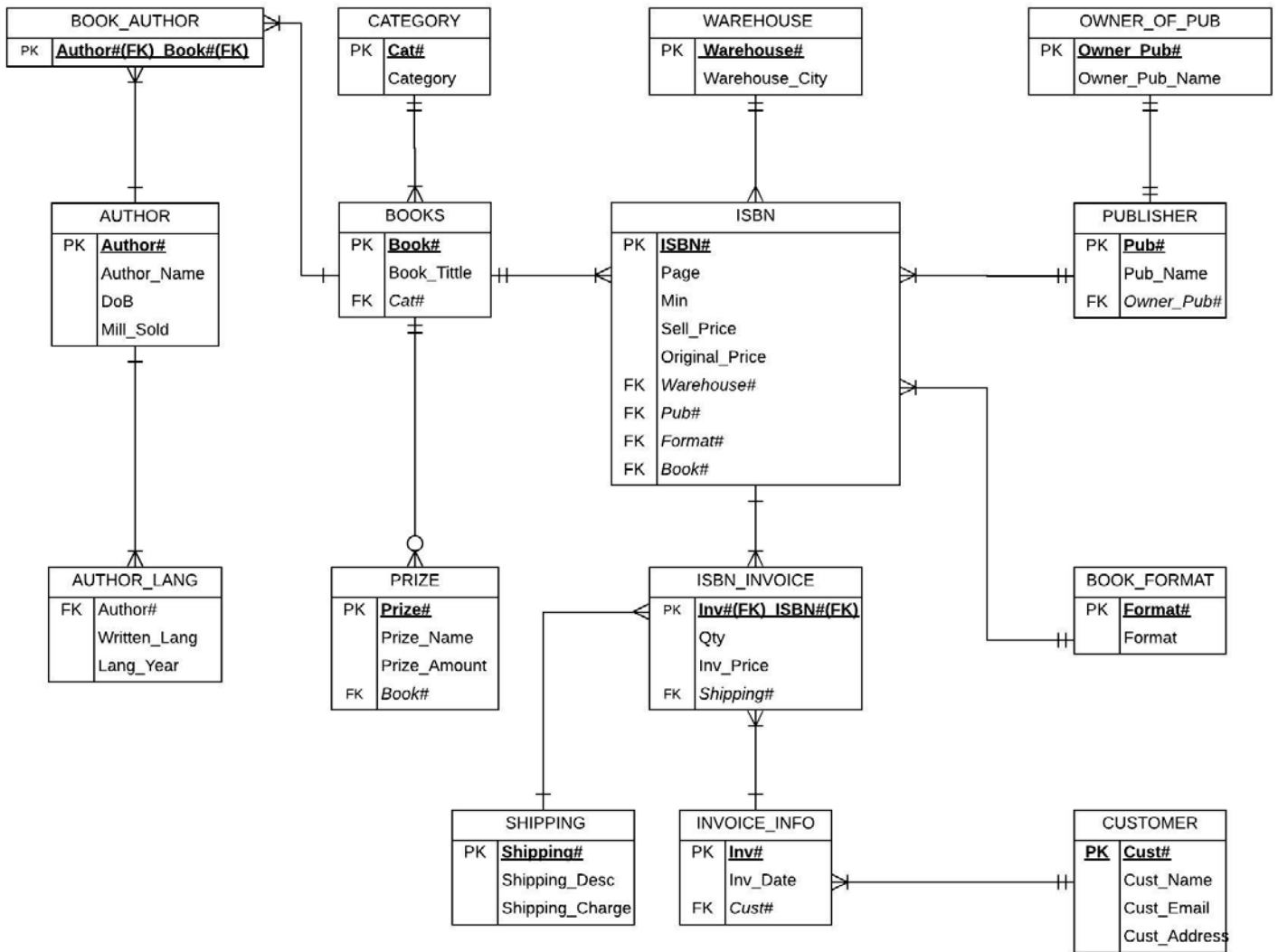# Normalization of CanAmazing.com

Submitted To: Nasim Razavi
Course: DBS201 W18 Assignment
Section: B
Submitted By: Elisa Ng Li: 136265170
                 Xin (Jack) Nian: 146330170
                 Olga Rudina: 039949136
                 Ali Samarimoghadam: 137036174
                 David Zak: 158458174

Table of Contents

ERD

BOOK_AUTHOR

PK	**Author#(FK) Book#(FK)**

CATEGORY

PK	**Cat#**
	Category

WAREHOUSE

PK	**Warehouse#**
	Warehouse_City

OWNER_OF_PUB

PK	**Owner_Pub#**
	Owner_Pub_Name

AUTHOR

PK	**Author#**
	Author_Name
	DoB
	Mill_Sold

BOOKS

PK	**Book#**
	Book_Tittle
FK	Cat#

ISBN

PK	**ISBN#**
	Page
	Min
	Sell_Price
	Original_Price
FK	Warehouse#
FK	Pub#
FK	Format#
FK	Book#

PUBLISHER

PK	**Pub#**
	Pub_Name
FK	Owner_Pub#

AUTHOR_LANG

FK	Author#
	Written_Lang
	Lang_Year

PRIZE

PK	**Prize#**
	Prize_Name
	Prize_Amount
FK	Book#

ISBN_INVOICE

PK	**Inv#(FK) ISBN#(FK)**
	Qty
	Inv_Price
FK	Shipping#

BOOK_FORMAT

PK	**Format#**
	Format

SHIPPING

PK	**Shipping#**
	Shipping_Desc
	Shipping_Charge

INVOICE_INFO

PK	**Inv#**
	Inv_Date
FK	Cust#

CUSTOMER

PK	**Cust#**
	Cust_Name
	Cust_Email
	Cust_Address

3

Normalization

Merged 3NF:

```
AUTHOR          [AUTHOR#, AUTHOR_NAME, DOB, MILL_SOLD]
AUTHOR_LANG     [AUTHOR#, WRITTEN_LANG, LANG_YEAR]
BOOK_FORMAT     [FORMAT#, FORMAT]
BOOK_AUTHOR     [AUTHOR#(FK) BOOK#(FK)]
BOOKS           [BOOK#, BOOK_TITLE, CAT#(FK)]
CATEGORY        [CAT#, CATEGORY]
CUSTOMER        [CUST#, CUST_NAME, CUST_EMAIL, CUST_ADDRESS]
OWNER_OF_PUB    [OWNER PUB#, OWNER_PUB_NAME]
PRIZE           [PRIZE#, PRIZE_NAME, PRIZE_AMOUNT, BOOK#(FK)]
PUBLISHER       [PUB#, PUB_NAME, OWNER_PUB#(FK)]
SHIPPING        [SHIPPING#, SHIPPING_DESC, SHIPPING_CHARGE]
INVOICE_INFO    [INV#, INV_DATE, CUST#(FK)]
ISBN            [ISBN#, PAGE, MIN, SELL_PRICE, ORIGINAL_PRICE,
                WAREHOUSE#(FK), PUB#(FK), FORMAT#(FK), BOOK#(FK)]
ISBN_INVOICE    [INV#(FK) ISVN#(FK), QTY, INV_PRICE, SHIPPING#(FK)]
WAREHOUSE       [WAREHOUSE#, WAREHOUSE_CITY]
```

View 1:

UNF: *ISBN* [(**<u>BOOK#</u>**, BOOK_TITLE, CAT#, CATEGORY), (ISBN, SELL_PRICE, ORIGINAL_PRICE, FORMAT#, FORMAT, PAGE, MIN)]

1NF: *ISBN* [(**<u>BOOK#</u>**, BOOK_TITLE, CAT#, CATEGORY), (**<u>ISBN</u>**, SELL_PRICE, ORIGINAL_PRICE, FORMAT#, FORMAT, PAGE, MIN)]

2NF: *ISBN* [**<u>ISBN</u>**, SELL_PRICE, ORIGINAL_PRICE, FORMAT#, FORMAT, PAGE, MIN]
    BOOKS [**<u>BOOK#</u>**, BOOK_TITLE, CAT#, CATEGORY]

3NF: *ISBN*   [**<u>ISBN</u>**, SELL_PRICE, ORIGINAL_PRICE, PAGE, MIN, *FORMAT#(FK)*]
    BOOKS   [**<u>BOOK#</u>**, BOOK_TITLE, *CAT#(FK)*]
    CATEGORY [**<u>CAT#</u>**, CATEGORY]
    FORMAT   [**<u>FORMAT#</u>**, FORMAT]

UNF: *INVOICE* [**INV#**, INV_DATE, CUST_ADDRESS, CUST_NAME, CUST#, (**ISBN**, QTY,
         (**OWNER PUB#**, OWNNER_PUB_NAME, PUB#, PUB_NAME), SELL_PRICE)]

1NF: *INVOICE*   [**INV#**, INV_DATE, CUST_ADDRESS, CUST_NAME, CUST#]
    ISBN_INVOICE [**INVOICE#**, **ISBN,** QTY, SELL_PRICE]
    PUBLISHER   [**INVOICE#, ISBN, OWNER PUB#,** OWNNER_PUB_NAME, PUB#, PUB_NAME]

2NF: *INVOICE*   [**INVOICE#**, INV_DATE, CUST_ADDRESS, CUST_NAME, CUST#]
    ISBN_INVOICE   [**INVOICE#**, **ISBN,** QTY, SELL_PRICE]
    PUBLISHER   [**INVOICE#, ISBN, OWNER PUB#**]
    OWNPUB   [**ISBN, OWNER PUB#,** OWNNER_PUB_NAME, PUB#, PUB_NAME]

3NF: *INVOICE*   [**INVOICE#**, INV_DATE, *CUST#(FK)*]
    ISBN_INVOICE   [**INVOICE#**, **ISBN,** QTY, SELL_PRICE]
    PUBLISHER   [**PUB#,** PUB_NAME, *OWNER_PUB# (FK)*]
    OWNER_OF_PUB   [**OWNER PUB#,** OWNNER_PUB_NAME]
    CUSTOMER   [**CUST#,** CUST_ADDRESS, CUST_NAME]

UNF: [**ISBN,** BOOK#, BOOK_TITLE,(AUTHOR#, AUTHOR_NAME), PRIZE#,

           PRIZE_NAME, PRIZE_AMOUNT]

1NF: *BOOKPRIZES*   [**ISBN,** BOOK#, BOOK_TITLE, PRIZE#, PRIZE_NAME, PRIZE_AMOUNT]

    BOOK_AUTHOR [**ISBN, AUTHOR#,** AUTHOR_NAME]

2NF: *BOOKPRIZES* [**ISBN,** BOOK#, BOOK_TITLE, PRIZE#, PRIZE_NAME, PRIZE_AMOUNT]

    BOOK_AUTHOR [**ISBN, AUTHOR#,** AUTHOR_NAME]

3NF: *BOOKPRIZES* [**ISBN,** *BOOK#(FK)*]

   BOOKS[BOOK#, BOOK_TITLE]

   BOOK_AUTHOR [**ISBN, AUTHOR#,** AUTHOR_NAME]

   PRIZE_INFO [**PRIZE#**, PRIZE_NAME, PRIZE_AMOUNT, *BOOK#(FK)*]

UNF: *AUTHORBOOKS* [**AUTHOR#**, AUTHOR_NAME, DOB, MILL_SOLD, ISBN, BOOK#, BOOK_TITLE,
CAT#, CATEGORY, BOOK_LANG, LANG_YEAR]

1NF: *AUTHORBOOKS* [**AUTHOR#**, AUTHOR_NAME, DOB, MILL_SOLD]
   BOOK_INFO [**ISBN**, BOOK#, BOOK_TITLE, CAT#, CATEGORY, BOOK_LANG,
LANG_YEAR]

2NF: *AUTHORBOOKS* [**AUTHOR#**, AUTHOR_NAME, DOB, MILL_SOLD]
   BOOK_INFO [**ISBN,** BOOK#, BOOK_TITLE, CAT#, CATEGORY, BOOK_LANG,
LANG_YEAR]

3NF: *AUTHORBOOKS* [**AUTHOR#**, AUTHOR_NAME, DOB, MILL_SOLD]
   BOOK_INFO [**ISBN,** BOOK#]
   AUTHOR_LANG [AUTHOR#(FK), BOOK_LANG, LANG_YEAR]
   BOOKS[**BOOK#,** BOOK_TITLE, *CAT#(FK)*]
   CATEGORY [**CAT#**, CATEGORY]

View 5:

UNF: *INVOICE* [**INV#,** CUST#, CUST_NAME, CUST_ADDRESS, INV_DATE, (QTY, ISBN,
             BOOK_TITLE, WAREHOUSE#, WAREHOUSE_NAME, SELL_PRICE, SHIPPING#,
             SHIPPING_DESC, SHIPPING_CHARGE)]

1NF: *INVOICE*   [**INV#**, ISBN, SELL_PRICE, CUST#, CUST_NAME, CUST_ADDRESS,
             INV_DATE, QTY, BOOK_TITLE]
     WAREHOUSE [**WAREHOUSE#**, SHIPPING#, WAREHOUSE_NAME, SHIPPING_DESC,
             SHIPPING_CHARGE]

2NF: *INVOICE*   [**INV#**, INV_DATE, CUST#(FK)]
     INVOICE_INFO [**ISBN**, **INV#**, QTY, BOOK_TITLE, SELL_PRICE,
                 SHIPPING# (FK)]
     CUSTOMER   [**CUST#**, CUST_NAME, CUST_ADDRESS]
     WAREHOUSE   [**WAREHOUSE#**, WAREHOUSE_NAME]
     SHIPPING   [**SHIPPING#**, SHIPPING_DESC, SHIPPING_CHARGE]

3NF: *INVOICE*   [**INV#**, INV_DATE, CUST#(FK)]
     ISBN [**ISBN**, BOOK#(FK)]
     BOOKS   [**BOOK#**, BOOK_TITLE]
     INVOICE_INFO [**ISBN**, **INV#**, QTY, SELL_PRICE, *SHIPPING#(FK)*]
     CUSTOMER   [**CUST#**, CUST_NAME, CUST_ADDRESS]
     WAREHOUSE   [**WAREHOUSE#**, WAREHOUSE_NAME]
     SHIPPING_DESC [**SHIPPING#**, SHIPPING_DESC, SHIPPING_CHARGE]

View 6:

UNF: [**CUST#,** CUST_NAME, CUST_EMAIL, CUST_ADDRESS, (**INV#,** INV_DATE, (**ISBN,** BOOK#, BOOK_TITLE, QTY, SHIPPING#, SHIPPING_PRICE, INV_PRICE))]

1NF:

CUSTOMER   [**CUST#,** CUST_NAME, CUST_EMAIL, CUST_ADDRESS]

INVOICE_INFO [**INV#,** INV_DATE]

ISBN   [**ISBN,** BOOK#, BOOK_TITLE,QTY, SHIPPING#, SHIPPING_PRICE,

           INV_PRICE]

2NF:

CUSTOMER   [**CUST#,** CUST_NAME, CUST_EMAIL, CUST_ADDRESS]

INVOICE_INFO [**INV#,** INV_DATE]

ISBN   [**ISBN,** BOOK#, BOOK_TITLE,

ISBN_INVOICE [**ISBN, INV#**, INV_PRICE, QTY, SHIPPING#, SHIPPING_PRICE]

3NF:

CUSTOMER   [**CUST#,** CUST_NAME, CUST_EMAIL, CUST_ADDRESS]

INVOICE_INFO [**INV#,** INV_DATE]

ISBN   [**ISBN,** *BOOK#(FK)*]

BOOKS   [**BOOK#**, BOOK_TITLE]

ISBN_INVOICE [**ISBN, INV#**, INV_PRICE, QTY, *SHIPPING#(FK)*]

SHIPPING   [**SHIPPING#**, SHIPPING_PRICE]

Author Tables

```
              AUTHOR#   WRITTEN_LANG                                    LANG_YEAR

              1,009   English                                            1,982
              1,042   English                                            2,003
              2,114   English                                            1,998
              1,009   Italian                                            1,984
              1,042   French                                             1,999
              2,114   Arabic                                             2,003
              2,114   French                                             1,999
              2,114   Swahili                                            2,001
              2,114   Urdu                                               2,003

* * *  E N D   O F   R E P O R T  * * *
```

Author Constraints

GRUPB.AUTHOR#_FK - Zeus.senecacollege.ca(S10a04c2)   —   □   ×

Constraint name: AUTHOR#_FK

Table schema: GRUPB

Table name: AUTHOR_LANG

Parent table

Table schema: GRUPB

Table name: AUTHOR

Key constraint: AUTHOR#_PK

Key columns:

Column Name	System ...	Data Type	Length	Nu
AUTHOR#	AUTHOR#	DECIMAL	20,0	N

Column Name	System ...	Data Type	Length	Null...	Implicitly ...	Default Value	Text
AUTHOR#	AUTHOR#	DECIMAL	20,0	Yes		Null	

GRUPB.AUTHOR#_PK - Zeus.senecacollege.ca(S10a04c2)   —   □   ×

Constraint name: AUTHOR#_PK

Constraint type: Primary key

Table schema: GRUPB

Table name: AUTHOR

Column Name	System ...	Data Type	Length	Null...	Implicitly ...	Default Value
AUTHOR#	AUTHOR#	DECIMAL	20,0	No		0

Book_Author Table

AUTHOR#	BOOK#
1,009	2
1,009	3
2,114	9
1,042	4
1,042	5
1,042	6
1,042	7
1,042	8

* * * E N D   O F   R E P O R T * * *

Book_Author Constraints

GRUPB.BOOK_AUTHOR_PK - Zeus.senecacollege.ca(S10a04c2)   —   □   ×

Constraint name: BOOK_AUTHOR_PK

Constraint type: Primary key

Table schema: GRUPB

Table name: BOOK_AUTHOR

Column Name	System ...	Data Type	Length	Null...	Implicitly ...	Default Value
AUTHOR#	AUTHOR#	DECIMAL	20,0	No		0
BOOK#	BOOK#	DECIMAL	20,0	No		0

Book_Format Table

```
                    FORMAT#   FORMAT

                        1     Paperback
                        2     Hard Cover
                        5     Audio Download
                        8     Audio CD Abridged
                        9     Audio CD Unabridged

    * * * E N D   O F   R E P O R T   * * *
```

Book_Format Constraints

GRUPB.FORMAT#_PK - Zeus.senecacollege.ca(S10a04c2)   — □ ×

Constraint name: FORMAT#_PK

Constraint type: Primary key

Table schema: GRUPB

Table name: BOOK_FORMAT

Column Name	System ...	Data Type	Length	Null...	Implicitly ...	Default Value
FORMAT#	FORMAT#	DECIMAL	20,0	No		0

GRUPB.FORMAT_CK - Zeus.senecacollege.ca(S10a04c2)   — □ ×

Constraint name: FORMAT_CK

Table schema: GRUPB

Table name: BOOK_FORMAT

Check condition:

FORMAT# BETWEEN 1 AND 10

13

Books Table

```
                 BOOK#    BOOK_TITLE                                              CAT#

                    1     The Associate                                             1
                    2     Hitler's Years                                            5
                    3     Una Littera da Parigi                                     1
                    4     Abe Lincoln: Building A Nation                            5
                    5     America's Economic Collapse                               6
                    6     Napoleon Apres La Guerre Wat                              5
                    7     The Real Canadian Challenge                               6
                    8     Le Schism Civile du Sudan                                 6
                    9     Your Best - Always                                       17
                   10     The Purpose Driven Life                                  17
                   11     Handle with Much Care                                    17
                   12     Purple Flowers from GsGarden                              1
                   13     The Pursuit of Happiness                                  1

* * *  E N D   O F   R E P O R T  * * *
```

Books Constraints

GRUPB.BOOK#_PK - Zeus.senecacollege.ca(S10a04c2)   — ☐ ✕

Constraint name: BOOK#_PK

Constraint type: Primary key

Table schema: GRUPB

Table name: BOOKS

Column Name	System ...	Data Type	Length	Null...	Implicitly ...	Default Value
BOOK#	BOOK#	DECIMAL	20,0	No		0

Category Table

```
                    CAT#    CATEGORY

                      1    Fiction
                      5    History
                      6    Politics
                     17    Motivational
                     21    Health, Mind and Body


      * * *   E N D   O F   R E P O R T   * * *
```

Category Constraints

GRUPB.CAT#_FK - Zeus.senecacollege.ca(S10a04c2)   —   □   ×

Constraint name: CAT#_FK

Table schema: GRUPB

Table name: BOOKS

Parent table

Table schema: GRUPB

Table name: CATEGORY

Key constraint: CAT#_PK

Key columns:

Column Name	System ...	Data Type	Length	Nu
CAT#	CAT#	DECIMAL	20,0	N

Column Name	System ...	Data Type	Length	Null...	Implicitly ...	Default Value	Text
CAT#	CAT#	DECIMAL	20,0	No		0	

GRUPB.CAT#_PK - Zeus.senecacollege.ca(S10a04c2)

Constraint name: CAT#_PK

Constraint type: Primary key

Table schema: GRUPB

Table name: CATEGORY

Column Name	System ...	Data Type	Length	Null...	Implicitly ...	Default Value
CAT#	CAT#	DECIMAL	20,0	No		0

GRUPB.CATEGORY_SK - Zeus.senecacollege.ca(S10a04c2)

Constraint name: CATEGORY_SK

Table schema: GRUPB

Table name: CATEGORY

Check condition:

CAT# BETWEEN 1 AND 21

Customer Table

```
                        CUST#    CUST_NAME                          CUST_EMAIL
CUST_ADDRESS

                        452    Ron Beetle                           Ron.beetle@hotmail.com
194 Dundas Street,Toronto, ON, M9G 2B9
                        453    Henry Ford                           hford77@gmail.com
299 Manchester St., Toronto, ON, M4J 2A8
                        454    Jane Buick                           JB.wisedom@yahoo.com
1820 St. John Street, Toronto, ON, M4K 2B9

* * *  E N D  O F  R E P O R T  * * *
```

Customer Constraints

GRUPB.CUST#_FK - Zeus.senecacollege.ca(S10a04c2)   — □ ×

Constraint name: CUST#_FK

Table schema: GRUPB

Table name: INVOICE_INFO

Parent table

Table schema: GRUPB

Table name: CUSTOMER

Key constraint: CUST#_PK

Key columns:

Column Name	System ...	Data Type	Length	Nu
CUST#	CUST#	DECIMAL	20,0	N

Column Name	System ...	Data Type	Length	Null...	Implicitly ...	Default Value	Text
CUST#	CUST#	DECIMAL	20,0	No		0	

GRUPB.CUST#_PK - Zeus.senecacollege.ca(S10a04c2)   — □ ×

Constraint name: CUST#_PK

Constraint type: Primary key

Table schema: GRUPB

Table name: CUSTOMER

Column Name	System ...	Data Type	Length	Null...	Implicitly ...	Default Value
CUST#	CUST#	DECIMAL	20,0	No		0

Invoice_Info Table

```
                    INV#    INV_DATE                    CUST#

                   1,900    08/12/23                      452
                   1,946    08/12/24                      452
                     417    08/09/23                      453
                     167    08/09/07                      454
                   2,804    04/01/09                      452

     * * *  E N D   O F   R E P O R T   * * *
```

Invoice_Info Constraints

GRUPB.INV#_PK - Zeus.senecacollege.ca(S10a04c2)   — ☐ ✕

Constraint name:	INV#_PK
Constraint type:	Primary key
Table schema:	GRUPB
Table name:	INVOICE_INFO

Column Name	System ...	Data Type	Length	Null...	Implicitly ...	Default Value
INV#	INV#	DECIMAL	20,0	No		0

ISBN Table

```
                SELL_PRICE                    ORIGINAL_PRICE               WAREHOUSE#                        PUB#
                      PAGE                               MIN                  FORMAT#   ISBN#
                     BOOK#

                     16.99                            12.02                       12                            97
                       221                                0                        1   9781416513285
                        13
                     23.99                            16.84                       12                           121
                       301                                0                        2   9781880000731
                        12
                      5.99                             3.75                       14                            97
                         0                               77                        5   9780310270600
                        10
                     20.99                            14.82                       12                           121
                         0                               77                        9   9780310258983
                        10
                     32.99                            25.53                       14                            97
                       334                                0                        2   9780310205715
                        10
                     13.99                             9.64                       14                           311
                       376                                0                        1   9780310258971
                        10
                     20.99                            14.82                       12                            97
                       334                                0                        2   9780310258171
                        10
```

* * * E N D O F R E P O R T * * *

ISBN Constraints

GRUPB.ISBN#_PK - Zeus.senecac.on.ca(S10a04c2)

Constraint name:	ISBN#_PK
Constraint type:	Primary key
Table schema:	GRUPB
Table name:	ISBN

Column Name	System Name	Data Type	Length	Null...	Implicitly ...	Default Value
ISBN#	ISBN#	CHARACTER	20	Yes		Null

ISBN_Invoice Table

```
                    INV#              INV_PRICE   QTY            SHIPPING#   ISBN#
                     417                 29.34     1                    1   9780310205715
                     167                  5.44     1                    1   9780310270600
                     167                 21.44     3                    3   9781880000731
                   1,900                 14.44     1                    3   9781416513285
                   1,900                 20.00     2                    3   9781880000731
                   1,946                 12.44     1                    3   9780310258971
                   2,804                 16.99     2                    4   9781416513285
                   2,804                 23.99     2                    1   9781880000731
                   2,804                 13.99     4                    4   9780310258971
                   2,804                 20.99     2                    2   9780310258983
```

* * * E N D O F R E P O R T * * *

ISBN_INVOICE Constraints

GRUPB.ISBN_INVOICE_PK - Zeus.senecac.on.ca(S10a04c2)   —   □   ×

Constraint name: ISBN_INVOICE_PK

Constraint type: Primary key

Table schema: GRUPB

Table name: ISBN_INVOICE

Column Name	System Name	Data Type	Length	Null...	Implicitly ...	Default Value	Text
INV#	INV#	DECIMAL	20,0	No		0	
ISBN#	ISBN#	CHARACTER	20	Yes		Null	

Owner_Of_Pub Table

```
        OWNER_PUB#     OWNER_PUB_NAME

            21     Can West Media
            19     American Media Corp
            23     Partrige Communications  Corp

*  *  *   E N D   O F   R E P O R T   *  *  *
```

Owner_Of_Pub Constraints

GRUPB.OWNER_PUB#_FK - Zeus.senecacollege.ca(S10a04c2)   —   □   ×

Constraint name: OWNER_PUB#_FK

Table schema: GRUPB

Table name: PUBLISHER

Parent table

Table schema: GRUPB

Table name: OWNER_OF_PUB

Key constraint: OWNER_PUB#_PK

Key columns:

Column Name	System ...	Data Type	Length	Nu
OWNER_PUB#	OWNER_...	DECIMAL	20,0	N

Column Name	System ...	Data Type	Length	Null...	Implicitly ...	Default Value	Text
OWNER_PUB#	OWNER_...	DECIMAL	20,0	No		0	

GRUPB.OWNER_PUB#_PK - Zeus.senecacollege.ca(S10a04c2)   —   □   ×

Constraint name: OWNER_PUB#_PK

Constraint type: Primary key

Table schema: GRUPB

Table name: OWNER_OF_PUB

Column Name	System ...	Data Type	Length	Null...	Implicitly ...	Default Value
OWNER_PUB#	OWNER_...	DECIMAL	20,0	No		0

21

Prize Table

```
                    PRIZE#    PRIZE_NAME                                              PRIZE_AMOUNT
                    BOOK#

                        1     Annual Presentation Los Angeles Times Book Prize              55,000
                       13
                        2     Kiriyama-Leno Pacific Rim Book Prize                         235,000
                        1
                        3     Man Booker International Prize                               145,000
                       11
                        4     National Book Critics Circle                                100,000
                        1

* * *  E N D  O F  R E P O R T  * * *
```

Prize_Constraints

GRUPB.PRIZE#_PK - Zeus.senecacollege.ca(S10a04c2)   —   □   ✕

Constraint name: PRIZE#_PK

Constraint type: Primary key

Table schema: GRUPB

Table name: PRIZE

Column Name	System ...	Data Type	Length	Null...	Implicitly ...	Default Value
PRIZE#	PRIZE#	DECIMAL	20,0	No		0

Publisher Table

```
                    PUB#    PUB_NAME                                    OWNER_PUB#
                      97    Victor Books                                        21
                     121    Young Books                                         19
                     311    Zondervan                                           23

* * *  E N D   O F   R E P O R T  * * *
```

Publisher Constraints

GRUPB.PUB#_FK - Zeus.senecacollege.ca(S10a04c2)   — ☐ ✕

Constraint name:	PUB#_FK
Table schema:	📁 GRUPB
Table name:	▦ ISBN

Parent table

Table schema:	📁 GRUPB
Table name:	▦ PUBLISHER
Key constraint:	🔑 PUB#_PK

Key columns:

Column Name	System ...	Data Type	Length	Nu
PUB#	PUB#	DECIMAL	20,0	N

Column Name	System ...	Data Type	Length	Null...	Implicitly ...	Default Value	Text
PUB#	PUB#	DECIMAL	20,0	No		0	

🔑 GRUPB.PUB#_PK - Zeus.senecacollege.ca(S10a04c2)   — ☐ ✕

Constraint name:	PUB#_PK
Constraint type:	Primary key
Table schema:	📁 GRUPB
Table name:	▦ PUBLISHER

Column Name	System ...	Data Type	Length	Null...	Implicitly ...	Default Value
PUB#	PUB#	DECIMAL	20,0	No		0

Shipping Table

```
           SHIPPING#   SHIPPING_DESC                             SHIPPING_CHARGE

                1    Parcel Post                                          .69
                2    Received within 5 days                               .99
                3    Received within 3 days                              1.29
                4    Received Next Day                                   1.59
```

* * * E N D O F R E P O R T * * *

Shipping Constraints

GRUPB.SHIPPING#_CK - Zeus.senecacollege.ca(S10a04c2)   —   □   ×

Constraint name:	SHIPPING#_CK
Table schema:	GRUPB
Table name:	SHIPPING

Check condition:

SHIPPING# BETWEEN 1 AND 4

GRUPB.SHIPPING#_PK - Zeus.senecacollege.ca(S10a04c2)   —   □   ×

Constraint name:	SHIPPING#_PK
Constraint type:	Primary key
Table schema:	GRUPB
Table name:	SHIPPING

Column Name	System ...	Data Type	Length	Null...	Implicitly ...	Default Value
SHIPPING#	SHIPPIN...	DECIMAL	20,0	No		0

Warehouse Table

```
08/07/18  00:23:06                        PAGE    1

                 WAREHOUSE#   WAREHOUSE_CITY

                      12   Montreal
                      14   Toronto

      * * *  E N D  O F  R E P O R T  * * *
```

Warehouse Constraints

GRUPB.WAREHOUSE#_FK - Zeus.senecacollege.ca(S10a04c2)   —   □   ×

Constraint name: WAREHOUSE#_FK

Table schema: GRUPB

Table name: ISBN

Parent table

Table schema: GRUPB

Table name: WAREHOUSE

Key constraint: WAREHOUSE#_PK

Key columns:

Column Name	System ...	Data Type	Length	Nu
WAREHOUSE#	WAREHO...	DECIMAL	20,0	N

Column Name	System ...	Data Type	Length	Null...	Implicitly ...	Default Value	Text
WAREHOUSE#	WAREHO...	DECIMAL	20,0	No		0	

GRUPB.WAREHOUSE#_PK - Zeus.senecacollege.ca(S10a04c2)   —   □   ×

Constraint name: WAREHOUSE#_PK

Constraint type: Primary key

Table schema: GRUPB

Table name: WAREHOUSE

Column Name	System ...	Data Type	Length	Null...	Implicitly ...	Default Value
WAREHOUSE#	WAREHO...	DECIMAL	20,0	No		0

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Schema Permissions

```
                    Display Object Authority


Object . . . . . . . :    GRUPB          Owner  . . . . . . . . :    SM201B12

  Library  . . . . . :    QSYS           Primary group  . . . :    *NONE

Object type  . . . . :    *LIB           ASP device . . . . . :    *SYSBAS


Object secured by authorization list  . . . . . . . . . . . . :    *NONE



                     Object
User          Group       Authority
*PUBLIC                   *EXCLUDE
SM201B12                  *ALL
NRAZAVI                   *USE
SM201B14                  *ALL
SM201B22                  *ALL
SM201B23                  *ALL
SM201B35                  *ALL
```

Group Task Breakdown by Name

Elisa Ng Li: 136265170
- Table 6 Normalization
- ERD Creation
- SQL Table Creation
- Constraint Entering and Checking
- Permission Setting
- Merging

Xin (Jack) Nian: 146330170
- Table 5 Normalization
- ERD Creation
- Final Report
- Merging

Olga Rudina: 039949136
- Table 1 Normalization
- Table 1-6 Formatting
- Table 1-6 Editing

Ali Samarimoghadam: 137036174
- **Contact Person**
- SQL Table Creation
- ERD Creation
- Table 3-4 Normalization
- Table 1-6 Editing
- Table 1-6 Review
- Merging

David Zak: 158458174
- Table 2 Normalization
- Table 5 Editing
- Table 1-6 Review