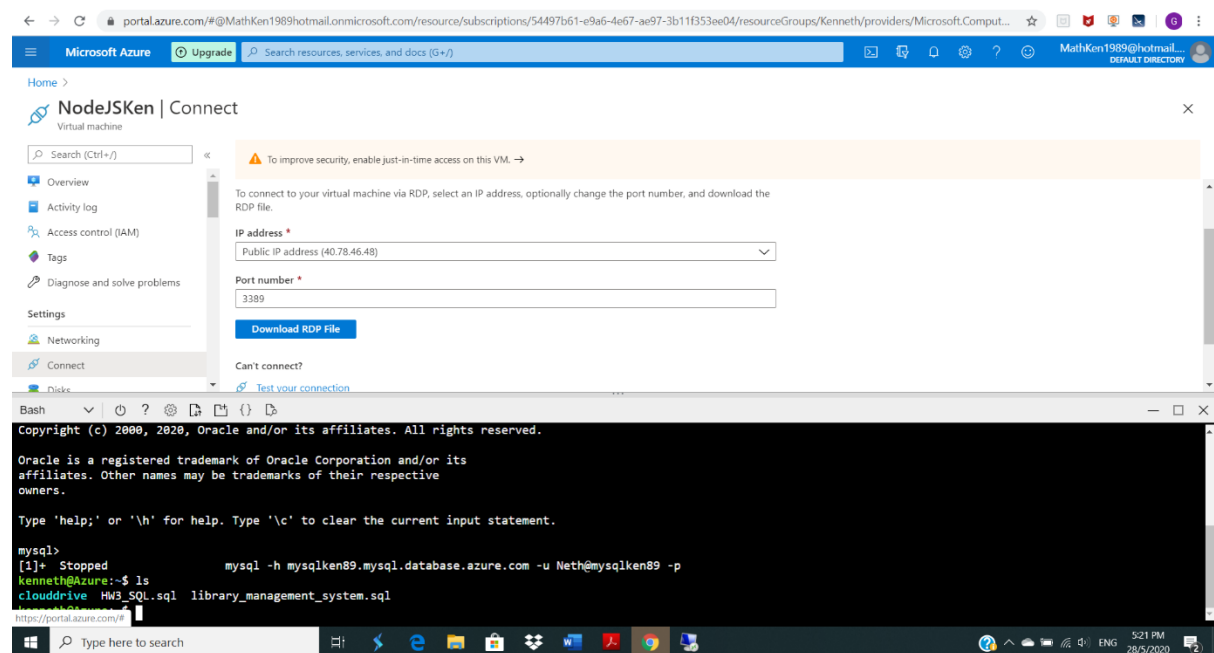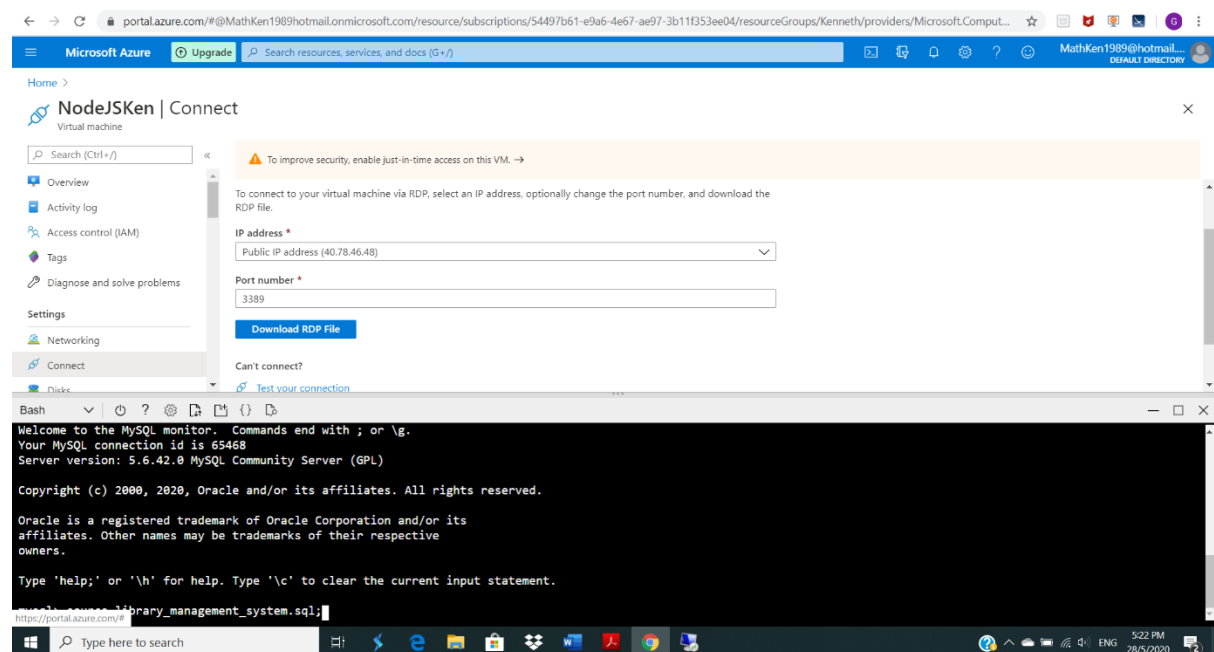Group members: Zhang Feifei, Goh Gek Chuah Kenneth, Michael Y Abay

Implementation screenshots HW3

Upload SQL file to Azure Cloud

Run SQL file on Azure Cloud

Show databases on Azure Cloud

Show tables created under database 'library_management_system' on Azure Cloud

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💻 Overview
📄 Activity log   RDP SSH BASTION

Bash ∨ ⟳ ? ⚙ 🗗 🗂 {} 🗎   — ☐ ✕

```
| issue_date                  |
| users                       |
+-----------------------------+
4 rows in set (0.03 sec)

mysql> explain books
    -> ;
+------------+-------------+------+-----+---------+----------------+
| Field      | Type        | Null | Key | Default | Extra          |
+------------+-------------+------+-----+---------+----------------+
| book_id    | int(100)    | NO   | PRI | NULL    | auto_increment |
| user_id    | int(100)    | YES  | MUL | NULL    |                |
| genre      | varchar(300)| NO   |     | NULL    |                |
| title      | varchar(300)| NO   |     | NULL    |                |
| author     | varchar(300)| NO   |     | NULL    |                |
| publisher  | varchar(300)| NO   |     | NULL    |                |
| edition    | int(100)    | NO   |     | NULL    |                |
| isbn       | varchar(100)| NO   |     | NULL    |                |
| pages      | int(100)    | NO   |     | NULL    |                |
| date_issued| date        | YES  |     | NULL    |                |
+------------+-------------+------+-----+---------+----------------+
10 rows in set (0.06 sec)

mysql>
```

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Explain 'books' table in database 'library_management_system'

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📄 Activity log   RDP SSH BASTION

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```
+----------+----------+------+-----+---------+----------------+
| issue_id | int(10)  | NO   | PRI | NULL    | auto_increment |
| book_id  | int(10)  | NO   |     | NULL    |                |
| user_id  | int(10)  | NO   |     | NULL    |                |
| date     | date     | NO   |     | NULL    |                |
+----------+----------+------+-----+---------+----------------+
4 rows in set (0.06 sec)

mysql> explain users;
+----------+-------------+------+-----+---------+----------------+
| Field    | Type        | Null | Key | Default | Extra          |
+----------+-------------+------+-----+---------+----------------+
| user_id  | int(100)    | NO   | PRI | NULL    | auto_increment |
| name     | varchar(300)| NO   |     | NULL    |                |
| phone    | varchar(11) | NO   |     | NULL    |                |
| email    | varchar(300)| NO   | UNI | NULL    |                |
| is_admin | tinyint(1)  | NO   |     | NULL    |                |
| password | varchar(300)| NO   |     | NULL    |                |
| address  | varchar(300)| NO   |     | NULL    |                |
| gender   | varchar(300)| NO   |     | NULL    |                |
+----------+-------------+------+-----+---------+----------------+
8 rows in set (0.07 sec)

mysql>
```

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Explain 'users' table in database 'library_management_system'

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🖥 Overview

📋 Activity log

RDP   SSH   BASTION

Bash ∨ | ⏻ ? ⚙ ▯ ▯ {} ▯   — ☐ ✕

```
| publisher    | varchar(300) | NO  |     | NULL    |                |
| edition      | int(100)     | NO  |     | NULL    |                |
| isbn         | varchar(100) | NO  |     | NULL    |                |
| pages        | int(100)     | NO  |     | NULL    |                |
| date_issued  | date         | YES |     | NULL    |                |
+--------------+--------------+-----+-----+---------+----------------+
10 rows in set (0.06 sec)

mysql> explain books_request;
+------------+--------------+------+-----+---------+----------------+
| Field      | Type         | Null | Key | Default | Extra          |
+------------+--------------+------+-----+---------+----------------+
| request_id | int(10)      | NO   | PRI | NULL    | auto_increment |
| user_id    | int(10)      | NO   |     | NULL    |                |
| genre      | varchar(300) | NO   |     | NULL    |                |
| title      | varchar(300) | NO   |     | NULL    |                |
| author     | varchar(300) | NO   |     | NULL    |                |
| edition    | int(10)      | NO   |     | NULL    |                |
| isbn       | varchar(100) | NO   |     | NULL    |                |
| date       | date         | NO   |     | NULL    |                |
+------------+--------------+------+-----+---------+----------------+
8 rows in set (0.05 sec)

mysql>
```

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Explain 'books_request' table in database 'library_management_system'

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🖥 Overview

📋 Activity log

RDP   SSH   BASTION

Bash ∨ | ⏻ ? ⚙ ▯ ▯ {} ▯   — ☐ ✕

```
+------------+--------------+------+-----+---------+----------------+
| request_id | int(10)      | NO   | PRI | NULL    | auto_increment |
| user_id    | int(10)      | NO   |     | NULL    |                |
| genre      | varchar(300) | NO   |     | NULL    |                |
| title      | varchar(300) | NO   |     | NULL    |                |
| author     | varchar(300) | NO   |     | NULL    |                |
| edition    | int(10)      | NO   |     | NULL    |                |
| isbn       | varchar(100) | NO   |     | NULL    |                |
| date       | date         | NO   |     | NULL    |                |
+------------+--------------+------+-----+---------+----------------+
8 rows in set (0.05 sec)

mysql> explain issue_date;
+----------+---------+------+-----+---------+----------------+
| Field    | Type    | Null | Key | Default | Extra          |
+----------+---------+------+-----+---------+----------------+
| issue_id | int(10) | NO   | PRI | NULL    | auto_increment |
| book_id  | int(10) | NO   |     | NULL    |                |
| user_id  | int(10) | NO   |     | NULL    |                |
| date     | date    | NO   |     | NULL    |                |
+----------+---------+------+-----+---------+----------------+
4 rows in set (0.06 sec)

mysql>
```

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Explain 'issue_date' table in database 'library_management_system'

```
Bash    ∨  ⏻ ? ⚙ 🗋 🗂 {} 🗂                                                                          —  □  ✕

mysql> select * from books;
+---------+---------+----------------+
------------+
| book_id | user_id | genre          | title                           | author          | publisher              | edition | isbn                | pages |
date_issued |
+---------+---------+----------------+
------------+
|       1 |       5 | Horror         | Zombie Day                      | Kazi Nazrul Islam | Nazrul Publications  |       3 | jfklsgsdlg5qw7q87w  |   800 |
2018-07-10 |
|       2 |       0 | Adventure      | The Fellowship of the Ring      | J.R.R. Tolkien  | Mariner Books          |       8 | 97805479282103dfkj  |   432 |
2012-09-18 |
|       3 |       4 | Adventure      | A Song of Ice & Fire            | George R. R. Martin | Game of Thrones    |       8 | has23dadh123427     |  1200 |
2018-07-11 |
|       4 |       5 | Adventure      | Harry Potter & The Half Blood Prince | J.K Rowling | Rowling's Publications |       1 | 31ghf1jk24kjb3l4l1gjh |   667 |
2018-07-10 |
|       5 |       2 | Adventure      | Harry Potter & The Deadly Hallows | J.K Rowling   | Rowling's Publications |       2 | agsh32gqkj12bkl134  |   798 |
2018-07-10 |
|       6 |       0 | Adventure      | The Two Towers                  | J.R.R. Tolkien  | Mariner Books          |       8 | 97805479282033dfkj  |   352 |
2012-09-18 |
|       7 |       0 | Mystery        | The Mysterious Affair at Styles | Agatha Christie | Agatha Publications    |       2 | 4zgdhdv2dfh81v31sdgj |   669 |
0000-00-00 |
|       8 |       0 | Adventure      | The Return of the King          | J.R.R. Tolkien  | Mariner Books          |       8 | 97805479281973dfkj  |   432 |
2012-09-18 |
|       9 |       0 | Adventure      | The Hobbit                      | J.R.R. Tolkien  | Houghton Mifflin Harcourt |    8 | 97805479282273dfkj  |   300 |
2012-09-18 |
|      10 |       0 | Modern Literature | In Search of Lost Time       | Marcel Proust   | NY Publishers          |       8 | 2j3nsd235habh3dfkj  |  4215 |
2018-07-11 |
+---------+---------+----------------+
------------+
10 rows in set (0.00 sec)

mysql> []
```

Query all data input by the SQL file into 'books' table in database 'library_management_system'

```
Bash    ∨  ⏻ ? ⚙ 🗋 🗂 {} 🗂                                                                          —  □  ✕

|       9 |       3 |       5 | 2018-07-10 |
|      10 |       5 |       5 | 2018-07-10 |
|      11 |       3 |       5 | 2018-07-10 |
|      12 |       3 |       5 | 2018-07-10 |
|      13 |       3 |       5 | 2018-07-10 |
|      14 |       3 |       5 | 2018-07-10 |
|      15 |       3 |       4 | 2018-07-10 |
|      16 |       1 |       5 | 2018-07-10 |
|      17 |       3 |       5 | 2018-07-10 |
|      18 |       5 |       2 | 2018-07-10 |
|      19 |       3 |       4 | 2018-07-11 |
|      20 |       7 |       4 | 2018-07-11 |
|      21 |       7 |       5 | 2018-07-11 |
|      22 |       3 |       4 | 2018-07-11 |
+---------+---------+---------+------------+
22 rows in set (0.00 sec)

mysql> select * from users;
+---------+-------------+-------------+----------------------------+----------+----------+------------------------+--------+
| user_id | name        | phone       | email                      | is_admin | password | address                | gender |
+---------+-------------+-------------+----------------------------+----------+----------+------------------------+--------+
|       1 | Abrar       | 01711568524 | a.zshahriar@gmail.com      |        1 | 1234     | Mirpur DOHS            | Male   |
|       2 | Arefin      | 01764431859 | arefin@gmail.com           |        0 | yellow   | Mirpur 13              | Male   |
|       3 | Kenneth Goh | 01782963175 | ggoh@uw.edu                |        0 | 1234     | Banani, Singapore      | Male   |
|       4 | Rafin       | 01924184941 | rafin.ryan.07@outlook.com  |        0 | horse    | Mirpur 13, Dhaka       | Male   |
|       5 | Shimi       | 01723645289 | shimi@gmail.com            |        0 | abcd     | Uttara, Sector 13      | Female |
|       6 | Jhuma       | 01782963175 | fjhuma@gmail.com           |        0 | qwerty   | Banani, Chairman Bari  | Female |
|       7 | Istiak      | 01932478293 | istiakisha69@gmail.com     |        0 | istiak   | Baily Road             | Male   |
|       8 | Fahim Ahmed | 01726972364 | fahim152@gmail.com         |        0 | fahimma  | Kallayanpur            | Male   |
|       9 | Zhang Feifei | 01932478293 | fzhang91@uw.edu           |        0 | 1234     | China                  | Male   |
|      10 | Michael Abay | 01726972364 | MAbay@uw.edu              |        0 | 1234     | USA                    | Male   |
+---------+-------------+-------------+----------------------------+----------+----------+------------------------+--------+
10 rows in set (0.00 sec)

mysql> |
```

Query all data input by the SQL file into 'users' table in database 'library_management_system'

```
2018-07-10  |
|        5 |       2 | Adventure        | Harry Potter & The Deadly Hallows  | J.K Rowling       | Rowling's Publications  |   2 | agsh32gqkj12bkl134   |  798 |
2018-07-10  |
|        6 |       0 | Adventure        | The Two Towers                     | J.R.R. Tolkien    | Mariner Books           |   8 | 97805479282033dfkj   |  352 |
2012-09-18  |
|        7 |       0 | Mystery          | The Mysterious Affair at Styles    | Agatha Christie   | Agatha Publications     |   2 | 4zgdhdv2dfh81v31sdgj |  669 |
0000-00-00  |
|        8 |       0 | Adventure        | The Return of the King             | J.R.R. Tolkien    | Mariner Books           |   8 | 97805479281973dfkj   |  432 |
2012-09-18  |
|        9 |       0 | Adventure        | The Hobbit                         | J.R.R. Tolkien    | Houghton Mifflin Harcourt |  8 | 97805479282273dfkj   |  300 |
2012-09-18  |
|       10 |       0 | Modern Literature | In Search of Lost Time            | Marcel Proust     | NY Publishers           |   8 | 2j3nsd235habh3dfkj   | 4215 |
2018-07-11  |
+------------+
10 rows in set (0.00 sec)

mysql> mysql> select * from books_request;
+------------+---------+---------+--------------------------------+-----------------+---------+----------------------+------------+
| request_id | user_id | genre   | title                          | author          | edition | isbn                 | date       |
+------------+---------+---------+--------------------------------+-----------------+---------+----------------------+------------+
|          1 |       2 | Mystery | Murder on the Orient Express   | Agatha Christie |       3 | 12gf3gj1jhr3jklj1ugjkb | 2018-07-10 |
|          2 |       5 | Mystery | The Mysterious Affair at Styles | Agatha Christie |       3 | 4zgdhdv2dfh81v31sdgj | 2018-07-10 |
|          3 |       4 | Mystery | The Mysterious Affair at Styles | Agatha Christie |       3 | 4zgdhdv2dfh81v31sdgj | 2018-07-10 |
|          4 |       1 | Mystery | The Mysterious Affair at Styles | Agatha Christie |       3 | 4zgdhdv2dfh81v31sdgj | 2018-07-10 |
|          5 |       3 | Mystery | The Mysterious Affair at Styles | Agatha Christie |       3 | 4zgdhdv2dfh81v31sdgj | 2018-07-10 |
|          6 |       6 | Mystery | The Mysterious Affair at Styles | Agatha Christie |       3 | 4zgdhdv2dfh81v31sdgj | 2018-07-10 |
|          7 |       7 | Mystery | The Mysterious Affair at Styles | Agatha Christie |       3 | 4zgdhdv2dfh81v31sdgj | 2018-07-10 |
|          8 |       8 | Mystery | The Mysterious Affair at Styles | Agatha Christie |       3 | 4zgdhdv2dfh81v31sdgj | 2018-07-10 |
|          9 |       9 | Mystery | The Mysterious Affair at Styles | Agatha Christie |       3 | 4zgdhdv2dfh81v31sdgj | 2018-07-10 |
|         10 |      10 | Mystery | The Mysterious Affair at Styles | Agatha Christie |       3 | 4zgdhdv2dfh81v31sdgj | 2018-07-10 |
+------------+---------+---------+--------------------------------+-----------------+---------+----------------------+------------+
10 rows in set (0.01 sec)

mysql>
```

Query all data input by the SQL file into 'books_request' table in database 'library_management_system'


```
|          9 |       9 | Mystery | The Mysterious Affair at Styles | Agatha Christie |       3 | 4zgdhdv2dfh81v31sdgj | 2018-07-10 |
|         10 |      10 | Mystery | The Mysterious Affair at Styles | Agatha Christie |       3 | 4zgdhdv2dfh81v31sdgj | 2018-07-10 |
+------------+---------+---------+--------------------------------+-----------------+---------+----------------------+------------+
10 rows in set (0.01 sec)

mysql> select * from issue_date;
+----------+---------+---------+------------+
| issue_id | book_id | user_id | date       |
+----------+---------+---------+------------+
|        1 |       1 |       2 | 2018-07-10 |
|        2 |       5 |       2 | 2018-07-10 |
|        3 |       3 |       2 | 2018-07-10 |
|        4 |       4 |       5 | 2018-07-10 |
|        5 |       1 |       2 | 2018-07-10 |
|        6 |       5 |       5 | 2018-07-10 |
|        7 |       1 |       5 | 2018-07-10 |
|        8 |       4 |       5 | 2018-07-10 |
|        9 |       3 |       5 | 2018-07-10 |
|       10 |       5 |       5 | 2018-07-10 |
|       11 |       3 |       5 | 2018-07-10 |
|       12 |       3 |       5 | 2018-07-10 |
|       13 |       3 |       5 | 2018-07-10 |
|       14 |       3 |       5 | 2018-07-10 |
|       15 |       3 |       4 | 2018-07-10 |
|       16 |       1 |       5 | 2018-07-10 |
|       17 |       3 |       5 | 2018-07-10 |
|       18 |       5 |       2 | 2018-07-10 |
|       19 |       3 |       4 | 2018-07-11 |
|       20 |       7 |       4 | 2018-07-11 |
|       21 |       7 |       5 | 2018-07-11 |
|       22 |       3 |       4 | 2018-07-11 |
+----------+---------+---------+------------+
22 rows in set (0.00 sec)

mysql>
```

Query all data input by the SQL file into 'issue_date' table in database 'library_management_system'