Module:BDAT-1000 Data Manipulation Techniques

Assignment: **Assignment 1**
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DATABASE EXPLANATION:

In this project we were given a excel sheet. We needed to put all the information from excel sheet into database. I decided to put all do information in different categories .To do that, I created 6 tables:

1)Persons Table
In the excel sheet there are some information that can be used to get information about an user. Persons table keep all the personal information. I used insert method for getting necessary information from the excel sheet. There are pictures below show how I created the table, how I get the information from excel and what I created from it.

```
1
2    CREATE TABLE [dbo].[Persons](
3         [Id] [int] NOT NULL PRIMARY KEY,
4         [Name] [varchar](25) NOT NULL,
5         [Gender] [varchar](25) NOT NULL,
6         [Age] [int] NULL,
7         [Ethinicity] [varchar](25) NULL,
8         [EyeColor] [varchar](25) NOT NULL,
9         [Leg] [varchar](25) NULL
10   );
```

```
1    INSERT INTO [dbo].[Persons]
2    ( -- Columns to insert data into
3     [Id], [Name], [Gender], [Age], [Ethinicity], [EyeColor], [Leg]
4    )
5    VALUES
6    (1, 'Andrew Arpin','Male','21','Caucasian','Blue','Right'),
7    (2, 'Huda Tanveer Siddiqui','Female','35','Pakistani','Black','Right'),
8    (3, 'Jhoana Romero','Female','35','NULL','Brown','Right'),
9    (4, 'Akshara Ashok','Female','21','Indian','Dark Brown','Right'),
10   (5, 'Ali ','Male','26','Arab','Black','Right'),
11   (6, 'Harsh Patel','Male','24','Indian','Black','Right'),
12   (7, 'Amrit','female','24','Indian','brown','Right'),
13   (8, 'Babitha Soniya Lewis','Female','27','Indian','black','Right'),
14   (9, 'Jojin George','Male','22','Indian','Dark Brown','Right'),
15   (10, 'Shivam Patel','Male','23','Indian','Brown','Right'),
16   (11, 'Bridget Ndubuisi','Female','28','African','Brown','Right'),
17   (12, 'Emine Guler','Female','30','Turkish','Brown','Right'),
18   (13, 'Sanat Khare','Male','22','Indian','Black','Right'),
19   (14, 'Pranav Amin','Male','23','Gujarati','Black','Right'),
20   (15, 'Kernel  Prieto','Male','41','Latino','Black','Right'),
21   (16, 'Ashlesh Sheth','Male','22','Indian','Brown','Right'),
22   (17, 'Xuehao Xiang','Male','22','Chinese','Black','Right'),
23   (18, 'Faruk Furkan','Male','27','Turkish','Brown','Left'),
24   (19, 'Emma Bognar','Female','22','Caucasian','Blue','Right'),
25   (20, 'Jhanvi Vaghela','Female','22','Indian','Black','Right'),
26   (21, 'Deepika Goyal','Female','26','Indian','Black','Right'),
27   (22, 'Mustafa Gorkem Guzeloglu','Male','25','Turkish','Brown','Right'),
28   (23, 'Anitha Vangala','Female','26','Indian','Black','Right'),
29   (24, 'Taim Al-Bakri','Male','30','Middleeastern ','Hazel','Right'),
30   (25, 'Shreya Bhintade','Female','27','Indian','Brown','Right'),
31   (26, 'Andrew Huynh','Male','98','Alien','Blue','Barrie')
32
33   GO
34
```

Messages

16:34:30   Started executing query at Line 1

```
1  SELECT * FROM dbo.[Persons]
2
```

Results   Messages

	Id	Name	Gender	Age	Ethinicity	EyeColor	Leg
1	1	Andrew Arpin	Male	21	Caucasian	Blue	Right
2	2	Huda Tanveer Siddiqui	Female	35	Pakistani	Black	Right
3	3	Jhoana Romero	Female	35	NULL	Brown	Right
4	4	Akshara Ashok	Female	21	Indian	Dark Brown	Right
5	5	Ali	Male	26	Arab	Black	Right
6	6	Harsh Patel	Male	24	Indian	Black	Right
7	7	Amrit	female	24	Indian	brown	Right
8	8	Babitha Soniya Lewis	Female	27	Indian	black	Right
9	9	Jojin George	Male	22	Indian	Dark Brown	Right
10	10	Shivam Patel	Male	23	Indian	Brown	Right
11	11	Bridget Ndubuisi	Female	28	African	Brown	Right
12	12	Emine Guler	Female	30	Turkish	Brown	Right
13	13	Sanat Khare	Male	22	Indian	Black	Right
14	14	Pranav Amin	Male	23	Gujarati	Black	Right
15	15	Kernel Prieto	Male	41	Latino	Black	Right
16	16	Ashlesh Sheth	Male	22	Indian	Brown	Right
17	17	Xuehao Xiang	Male	22	Chinese	Black	Right
18	18	Faruk Furkan	Male	27	Turkish	Brown	Left
19	19	Emma Bognar	Female	22	Caucasian	Blue	Right
20	20	Jhanvi Vaghela	Female	22	Indian	Black	Right
21	21	Deepika Goyal	Female	26	Indian	Black	Right
22	22	Mustafa Gorkem Guzeloglu	Male	25	Turkish	Brown	Right
23	23	Anitha Vangala	Female	26	Indian	Black	Right
24	24	Taim Al-Bakri	Male	30	Middleeastern	Hazel	Right
25	25	Shreya Bhintade	Female	27	Indian	Brown	Right
26	26	Andrew Huynh	Male	98	Alien	Blue	Barrie

2)Addresses Table

I used addresses table to show users address information in my database. There are pictures below which shows how I created addresses table, how I get information from excel to table and how the addresses table look like now.

```
1
2     CREATE TABLE [dbo].[Adresses](
3         [AddressId] [int] NOT NULL PRIMARY KEY,
4         [Location] [varchar](25) NOT NULL,
5         [CityYouBelong] [varchar](25) NOT NULL
6     );
7
8
9
```

Users > farukfurkankoc > Desktop > DataManupilation > ⬛ SQLQuery_1.sql

```
1     -- Insert rows into table 'Persons' in schema '[dbo]'
2     INSERT INTO [dbo].[Adresses]
3     ( -- Columns to insert data into
4       [AddressId], [Location], [CityYouBelong]
5     )
6     VALUES
7     (1, 'Barrie', 'Markham'),
8     (2, 'Mississauga', 'Jeddah'),
9     (3, 'Colombia', 'Pasto, Colombia'),
10    (4, 'Brampton', 'Kochi,Kerala'),
11    (5, 'London', 'Dubai'),
12    (6, 'Whitby', 'Bharuch'),
13    (7, 'Amritsar', 'Amritsar'),
14    (8, 'Mumbai', 'Mangalore'),
15    (9, 'Abu Dhabi', 'Calicut, Kerala'),
16    (10, 'Ahmedabad', 'Ahmedabad'),
17    (11, 'Canada', 'London'),
18    (12, 'Turkey', 'Ankara'),
19    (13, 'Brampton', 'Pune, India'),
20    (14, 'Ahmedabad', 'Ahmedabad'),
21    (15, 'Mex City', 'Mexico City'),
22    (16, 'Brampton', 'Pune, India'),
23    (17, 'China', 'Shanghai'),
24    (18, 'Istanbul', 'Istanbul'),
25    (19, 'Owen Sound', 'Mayne Island'),
26    (20, 'Gandhinagar', 'Gujarat'),
27    (21, 'Punjab', 'ludhiana'),
28    (22, 'Barrie', 'Antalya'),
29    (23, 'Toronto', 'Hyderabad, India'),
30    (24, 'London', 'Prague'),
31    (25, 'Mumbai', 'Mumbai'),
32    (26, 'Mars', 'Zagreb')
33
34    GO
35
```

```sql
1    SELECT * FROM dbo.Adresses
```

Results   Messages

	AddressId ⌄	Location ⌄	CityYouBelong ⌄
1	1	Barrie	Markham
2	2	Mississauga	Jeddah
3	1	Barrie	Markham
4	2	Mississauga	Jeddah
5	3	Colombia	Pasto, Colombia
6	4	Brampton	Kochi,Kerala
7	5	London	Dubai
8	6	Whitby	Bharuch
9	7	Amritsar	Amritsar
1…	8	Mumbai	Mangalore
1…	9	Abu Dhabi	Calicut, Kerala
1…	10	Ahmedabad	Ahmedabad
1…	11	Canada	London
1…	12	Turkey	Ankara
1…	13	Brampton	Pune, India
1…	14	Ahmedabad	Ahmedabad
1…	15	Mex City	Mexico City
1…	16	Brampton	Pune, India
1…	17	China	Shanghai
2…	18	Istanbul	Istanbul
2…	19	Owen Sound	Mayne Island
2…	20	Gandhinagar	Gujarat
2…	21	Punjab	ludhiana
2…	22	Barrie	Antalya
2…	23	Toronto	Hyderabad, India
2…	24	London	Prague
2…	25	Mumbai	Mumbai
2…	26	Mars	Zagreb

3)Personal Favourites

Personal favourites tables keeps all the favourites that users entered the excel sheet. There are pictures show how I created the personal favourites, how I put information from excel to table and display of the table.

▷ Run ☐ Cancel ⸶ Disconnect ⚙ Change Connection │ faruk │ ⌄

```sql
1
2    CREATE TABLE [dbo].[PersonalFavorites](
3        [PersonalFavoritesId] [int] NOT NULL PRIMARY KEY,
4        [Cuisine] [varchar](25) NOT NULL,
5        [Hobbies] [varchar](25) NOT NULL,
6        [Games] [varchar](25) NOT NULL,
7        [Singer] [varchar](25) NOT NULL,
8        [Movies] [varchar](25) NOT NULL,
9        [Cars] [varchar](25) NOT NULL,
10       [Beverage] [varchar](25) NOT NULL
11   );
12
13
```

DatabaseProjectfaruk > dbo > Tables > ≡ PersonalFavorites.sql

▷ Run ☐ Cancel ⸶ Disconnect ⚙ Change Connection │ faruk │ ⌄ │ ⚖ Explain ▣ Enable SQLCMD ↦ Export as Notebook

```sql
1    -- Insert rows into table 'PersonalFavorites' in schema '[dbo]'
2    INSERT INTO [dbo].[PersonalFavorites]
3    ( -- Columns to insert data into
4     [PersonalFavoritesId], [Cuisine], [Hobbies], [Games], [Singer], [Movies], [Cars], [Beverage]
5    )
6    VALUES
7    (1, 'Japanese', 'Hockey','Hockey/Basketball','Dance Gavin Dance','The Office/Your Name','Rimac Nevera','Coke'),
8    (2, 'Turkish/Arabic', 'Travelling','Badminton/CricketTable/Tennis','Justin Beiber','Good Girls','Dodge, Mustang, Land Cruiser','Coke'),
9    (3, 'Peruvian','Go to the gym','Dance','James Hetfield','Avengers','Audi','Wine'),
10   (4, 'Indian', 'Dancing','Basketball/Swimming','Taylor Swift','Money Heist','Skyline R34','Coke'),
11   (5, 'Indian', 'Soccer','Soccer','Hakan akkus','pirates of the caribbean','g65 amg','Beer'),
12   (6, 'Indian', 'Cricket','Cricket, Football','Arijit Singh','Iron Man/ Friends','Mustang, Camero','Sprite'),
13   (7, 'Indian', 'Reading','Badminton','Amrinder gill','FRIENDS','Range Rover','Tea'),
14   (8, 'Indian', 'Cooking','Cricket','Atif Aslam','Godzilla vs kong','Volvo','Orange juice'),
15   (9, 'Arabic/Italian','Making memes','Football','None in particular','One Piece, Money Heist','Rolls Royce Ghost','Coffee'),
16   (10,'Italian', 'Travelling','DOTA 2/ Snooker','T. Swift / KSI','Suits','BUGATTI CHIRON','Fruit juice'),
17   (11,'Chinese', 'Swimming','Skating','Rihana','Blacklist','Toyota','Orange crush'),
18   (12,'Turkish', 'Playing Piano','Basketball','The Bravery','Peaky Blinders','Mustang','Wine'),
19   (13, 'Indian', 'Playing the violin','Badminton','A. R. Rehman','Godfather Trilogy','Jaguar','Whiskey on the rocks'),
20   (14, 'Indian', 'Cricket','Cricket, Football','Weeknd','Lord of the rings','Mustang. BMW','Coke'),
21   (15, 'Mexican', 'Travelling','Basketball/Swimming','Thom Yorke','Fight Club/The big bang theory','Mustang','Whisky '),
22   (16, 'Indian ', 'Playing Chess','Cricket/Badminton/Football','A.R.Rahman','Money Heist/Peaky Blinders/Friends/Zindagi na milegi dobara/','Tesla, BMW','Whisky '),
23   (17,'made by myself', 'Studying','Skating','NULL','How I met your mother','Lamborghini','Orange juice'),
24   (18, 'Turkish Kebab', 'Football','Football','Tarkan','The Lord of The Rings','Nissan GT-R','Tea'),
25   (19, 'Thai', 'Hiking','Gymnastics, dance','Hozier','Derry Girls','Dodge','Tea'),
26   (20, 'Indian', 'Dancing','Badminton/Volleyball','A. R. Rehman','The Bold Type','Range Rover,Jaguar','Tea'),
27   (21, 'Indian ', 'Cooking','Badminton','Gurdas mann','Martian','Verna','Tea'),
28   (22, 'Kebab', 'Playing soccer','Sceer','Queen','Inception','Mercedes','Whiskey'),
29   (23, 'Indian (biryani)', 'Dancing','Badminton','SID SRIRAM','Money Heist','Mustang','Tea'),
30   (24, 'Indian ', 'Camping','Biking, Swimming and partying ','Mahmut Orhan ','The Matrix + The Office','Toyota','Beer'),
31   (25, 'Asian,Mediterranean', 'Reading Novels','Badminton/Swimming','None particiularly','HP Series/B99','BMW,Volvo','Tea/Coffee'),
32   (26, 'Pizza', 'Netflix','Ballet','FrogSounds','Frog Knights','Honda Civic','Sprite')
33
34   GO
35
```

```
1    SELECT * FROM PersonalFavorites
```

Results | Messages

PersonalFavoritesId	Cuisine	Hobbies	Games	Singer	Movies	Cars	Beverage
1	Japanese	Hockey	Hockey/Basketball	Dance Gavin Dance	The Office/Your Name	Rimac Nevera	Coke
2	Turkish/Arabic	Travelling	Badminton/CricketTable/Te…	Justin Beiber	Good Girls	Dodge, Mustang, Land Crui…	Coke
3	Peruvian	Go to the gym	Dance	James Hetfield	Avengers	Audi	Wine
4	Indian	Dancing	Basketball/Swimming	Taylor Swift	Money Heist	Skyline R34	Coke
5	Indian	Soccer	Soccer	Hakan akkus	pirates of the caribbean	g65 amg	Beer
6	Indian	Cricket	Cricket, Football	Arijit Singh	Iron Man/ Friends	Mustang, Camero	Sprite
7	Indian	Reading	Badminton	Amrinder gill	FRIENDS	Range Rover	Tea
8	Indian	Cooking	Cricket	Atif Aslam	Godzilla vs kong	Volvo	Orange juice
9	Arabic/Italian	Making memes	Football	None in particular	One Piece, Money Heist	Rolls Royce Ghost	Coffee
10	Italian	Travelling	DOTA 2/ Snooker	T. Swift / KSI	Suits	BUGATTI CHIRON	Fruit juice
11	Chinese	Swimming	Skating	Rihana	Blacklist	Toyota	Orange crush
12	Turkish	Playing Piano	Basketball	The Bravery	Peaky Blinders	Mustang	Wine
13	Indian	Playing the violin	Badminton	A. R. Rehman	Godfather Trilogy	Jaguar	Whiskey on th
14	Indian	Cricket	Cricket, Football	Weeknd	Lord of the rings	Mustang. BMW	Coke
15	Mexican	Travelling	Basketball/Swimming	Thom Yorke	Fight Club/The big bang t…	Mustang	Whisky
16	Indian	Playing Chess	Cricket/Badminton/Football	A.R.Rahman	Money Heist/Peaky Blinder…	Tesla, BMW	Whisky
17	made by myself	Studying	Skating	NULL	How I met your mother	Lamborghini	Orange juice
18	Turkish Kebab	Football	Football	Tarkan	The Lord of The Rings	Nissan GT-R	Tea
19	Thai	Hiking	Gymnastics, dance	Hozier	Derry Girls	Dodge	Tea
20	Indian	Dancing	Badminton/Volleyball	A. R. Rehman	The Bold Type	Range Rover,Jaguar	Tea
21	Indian	Cooking	Badminton	Gurdas mann	Martian	Verna	Tea
22	Kebab	Playing soccer	Sceer	Queen	Inception	Mercedes	Whiskey
23	Indian (birya…	Dancing	Badminton	SID SRIRAM	Money Heist	Mustang	Tea
24	Indian	Camping	Biking, Swimming and part…	Mahmut Orhan	The Matrix + The Office	Toyota	Beer
25	Asian,Mediter…	Reading Novels	Badminton/Swimming	None particiularly	HP Series/B99	BMW,Volvo	Tea/Coffee
26	Pizza	Netflix	Ballet	FrogSounds	Frog Knights	Honda Civic	Sprite

4)Language Table

This tables shows users language information. There are some pictures below show how I created the table, how I put information in it and display of the table.

```
Run  Cancel  Disconnect  Change Connection   faruk                          ∨

  1
  2     CREATE TABLE [dbo].[Language](
  3         [LanguageId] [int] NOT NULL PRIMARY KEY,
  4         [Language] [varchar](25) NOT NULL
  5     );
  6
  7
```

```
Run  Cancel  Disconnect  Change Connection   faruk        ∨      Explain  Enable SQLCMD  Export as Notebook
  1   INSERT INTO [dbo].[Language]
  2   ( -- Columns to insert data into
  3     [LanguageId], [Language]
  4   )
  5   VALUES
  6   (1, 'English'),
  7   (2, 'English/Urdu'),
  8   (3, 'Spanish/English '),
  9   (4, 'English, Hindi,Malayalam'),
 10   (5, 'English/Arabic'),
 11   (6, 'English, Gujarati , Hindi '),
 12   (7, 'English,Hindi,Punjabi'),
 13   (8, 'English, Hindi, Kannada, Konkani, Tulu'),
 14   (9, 'English, Malayalam'),
 15   (10, 'English, Gujarati , Hindi '),
 16   (11, 'English'),
 17   (12, 'English/Turkish'),
 18   (13, 'English, Hindi, Marathi'),
 19   (14, 'Hindi, English, Gujarati'),
 20   (15, 'Spanish/English '),
 21   (16, 'English/Hindi/Marathi'),
 22   (17, 'English,Chinese'),
 23   (18, 'Turkish,English'),
 24   (19, 'English/French'),
 25   (20, 'English/Hindi/Gujarati'),
 26   (21, 'English,Hindi,Punjabi'),
 27   (22, 'Turkish/English'),
 28   (23, 'Telugu, English'),
 29   (24, 'English, Arabic'),
 30   (25, 'Hindi,English'),
 31   (26, 'English')
 32
 33   GO
 34
```

Messages

15:49:22   Started executing query at Line 1
            (26 rows affected)

```
1  SELECT * FROM dbo.[Language]
2
```
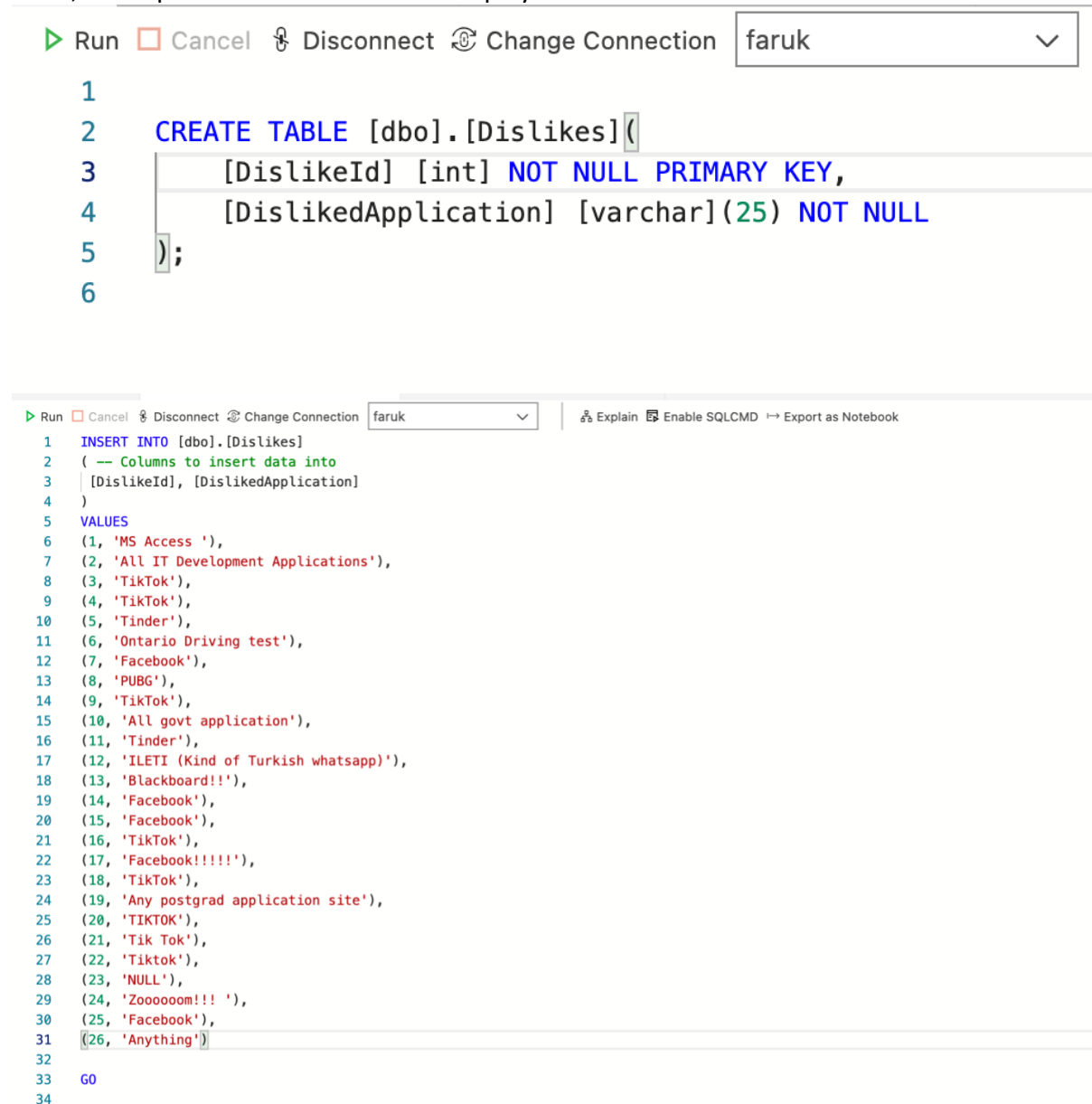
Results   Messages

	LanguageId ⌄	Language ⌄
1	1	English
2	2	English/Urdu
3	3	Spanish/English
4	4	English, Hindi,Malayalam
5	5	English/Arabic
6	6	English, Gujarati , Hindi
7	7	English,Hindi,Punjabi
8	8	English, Hindi, Kannada, …
9	9	English, Malayalam
10	10	English, Gujarati , Hindi
11	11	English
12	12	English/Turkish
13	13	English, Hindi, Marathi
14	14	Hindi, English, Gujarati
15	15	Spanish/English
16	16	English/Hindi/Marathi
17	17	English,Chinese
18	18	Turkish,English
19	19	English/French
20	20	English/Hindi/Gujarati
21	21	English,Hindi,Punjabi
22	22	Turkish/English
23	23	Telugu, English
24	24	English, Arabic
25	25	Hindi,English
26	26	English

Results grid

5)Personal Dislike Table
I used this table to store users dislikes. There are pictures below show how I created the
table, how I put information in it and display of the table.

▷ Run ☐ Cancel ⅄ Disconnect ⟲ Change Connection | faruk   ⌄ |

```
1
2    CREATE TABLE [dbo].[Dislikes](
3        [DislikeId] [int] NOT NULL PRIMARY KEY,
4        [DislikedApplication] [varchar](25) NOT NULL
5    );
6
```

▷ Run ☐ Cancel ⅄ Disconnect ⟲ Change Connection | faruk   ⌄ | ⣿ Explain ⎘ Enable SQLCMD ↦ Export as Notebook

```
1    INSERT INTO [dbo].[Dislikes]
2    ( -- Columns to insert data into
3      [DislikeId], [DislikedApplication]
4    )
5    VALUES
6    (1, 'MS Access '),
7    (2, 'All IT Development Applications'),
8    (3, 'TikTok'),
9    (4, 'TikTok'),
10   (5, 'Tinder'),
11   (6, 'Ontario Driving test'),
12   (7, 'Facebook'),
13   (8, 'PUBG'),
14   (9, 'TikTok'),
15   (10, 'All govt application'),
16   (11, 'Tinder'),
17   (12, 'ILETI (Kind of Turkish whatsapp)'),
18   (13, 'Blackboard!!'),
19   (14, 'Facebook'),
20   (15, 'Facebook'),
21   (16, 'TikTok'),
22   (17, 'Facebook!!!!!'),
23   (18, 'TikTok'),
24   (19, 'Any postgrad application site'),
25   (20, 'TIKTOK'),
26   (21, 'Tik Tok'),
27   (22, 'Tiktok'),
28   (23, 'NULL'),
29   (24, 'Zoooooom!!! '),
30   (25, 'Facebook'),
31   (26, 'Anything')
32
33   GO
34
```

Messages

```
15:40:08    Started executing query at Line 1
            (26 rows affected)
            Total execution time: 00:00:00.017
```

```
1  SELECT * FROM dbo.Dislikes
2  |
```

Results   Messages

	DislikeId ▾	DislikedApplication ▾
1	1	MS Access
2	2	All IT Development Applic…
3	3	TikTok
4	4	TikTok
5	5	Tinder
6	6	Ontario Driving test
7	7	Facebook
8	8	PUBG
9	9	TikTok
10	10	All govt application
11	11	Tinder
12	12	ILETI (Kind of Turkish wh…
13	13	Blackboard!!
14	14	Facebook
15	15	Facebook
16	16	TikTok
17	17	Facebook!!!!!
18	18	TikTok
19	19	Any postgrad application …
20	20	TIKTOK
21	21	Tik Tok
22	22	Tiktok
23	23	NULL
24	24	Zoooooom!!!
25	25	Facebook
26	26	Anything

6)Travel History Table
Travel history table stores all the information about users travel history. There are some pictures below which show how I created the table, how I put information in it and display of the table.

```
▷ Run   ☐ Cancel   ⅋ Disconnect   ⟳ Change Connection   ┌ faruk                    ⌄ ┐
                                                          └──────────────────────────┘
  1
  2        CREATE TABLE [dbo].[TravelHistory](
  3            [TravelHistoryId] [int] NOT NULL PRIMARY KEY,
  4            [CountriesBeenTo] [varchar](25) NOT NULL
  5        );
  6
```

Close (⌘W)

```
 1   INSERT INTO [dbo].[TravelHistory]
 2   ( -- Columns to insert data into
 3    [TravelHistoryId], [CountriesBeenTo]
 4   )
 5   VALUES
 6   (1, 'China, USA, Mexico, England, France, Antigua, Barbados'),
 7   (2, 'Turkey, UAE, USA,  Malaysia, Thailand, UK'),
 8   (3, 'Brasil, Peru, Mexico, Ecuador, Chile'),
 9   (4, 'US,UK,China, Belarus'),
10   (5, 'Germany/Turkey and Egypt'),
11   (6, 'India, Canada'),
12   (7, 'India'),
13   (8, 'India'),
14   (9, 'UAE, Oman, Georgia'),
15   (10, 'Thailand'),
16   (11, 'U.S.A, Nigeria, England, Dubai'),
17   (12, 'England/Italia/France/Begium/Serbia/US'),
18   (13, 'Malaysia, Thailand, China, Nepal'),
19   (14, 'India'),
20   (15, 'UK, Japan, Spain, France, Italy, Germany, Venezuela, Chile,USA,Turkey'),
21   (16, 'Australia, New Zealand, Malaysia, Singapore, Thailand, Hong KOng, China, Maldives'),
22   (17, 'China'),
23   (18, 'Ireland'),
24   (19, 'Dominican Republic, Panama, England, France, Germany, Portugal, US, Netherlands'),
25   (20, 'India'),
26   (21, 'India'),
27   (22, 'Cyprus/Canada'),
28   (23, 'India, Canada'),
29   (24, 'Denmark, France, Netherland, Czechk Rep, England, Italy, Armenia, Finalnd +around 40 more '),
30   (25, 'US,UK'),
31   (26, 'Canada')
32
33   GO
34
```

Messages

18:19:39   Started executing query at Line 1
            (26 rows affected)

```
1  SELECT * FROM dbo.[TravelHistory]
2
```

Results   Messages

	TravelHistoryId ⌄	CountriesBeenTo ⌄
1	1	China, USA, Mexico, Engla…
2	2	Turkey, UAE, USA, Malays…
3	3	Brasil, Peru, Mexico, Ecu…
4	4	US,UK,China, Belarus
5	5	Germany/Turkey and Egypt
6	6	India, Canada
7	7	India
8	8	India
9	9	UAE, Oman, Georgia
10	10	Thailand
11	11	U.S.A, Nigeria, England, …
12	12	England/Italia/France/Beg…
13	13	Malaysia, Thailand, China…
14	14	India
15	15	UK, Japan, Spain, France,…
16	16	Australia, New Zealand, M…
17	17	China
18	18	Ireland
19	19	Dominican Republic, Panam…
20	20	India
21	21	India
22	22	Cyprus/Canada
23	23	India, Canada
24	24	Denmark, France, Netherla…
25	25	US,UK
26	26	Canada

US,UK,China, Belarus

Database Design Diagram

There is a diagram below that shows the relations between the tables. As you can see the diagram I created ID for all the tables and I made them primary key.
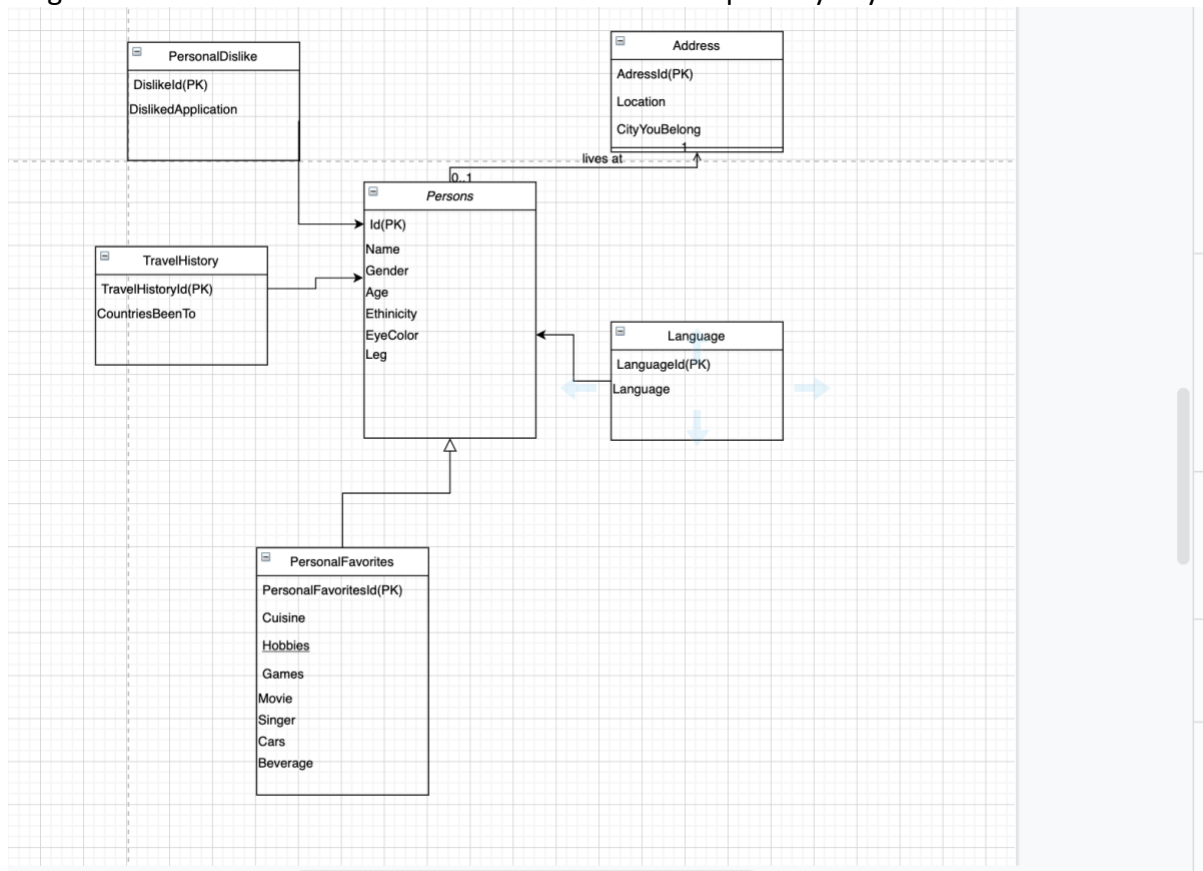
Problems

There were some problems occur during the creation of my database.

1)When I was creating my database I did not think that there would be some missing information in the excel sheet so I made my column NOT NULL and error occurred when I execute the query.

2)I gave VARCHAR(25) I thought the length would be okay but some errors occurred so I had to alter the table. The picture below shows a sample of how I solved first two problems. When an error occurs I altered the table as It is supposed to be. As you can see I changed VARCHAR(25) to VARCHAR(250) and NOT NULL to NULL.


```
alterTabla.sql ×

Users > farukfurkankoc > Desktop > DataManupilation > alterTabla.sql
1    ALTER TABLE dbo.TravelHistory
2    ALTER COLUMN CountriesBeenTo VARCHAR(250) NULL;
3
```

3)When I first designed the database in my mind I thought I could get all the information from excel using insert method. However it was not possible I am a Mac user and it took for me to find how to do that in the internet. So I copied everything from excel sheet and paste the into my tables using insert method.

4)When I tried to put dates into the table it did not work because of the format so I did not use date information. Unfortunately I was not able to fix that problem

5)Normally when you give relations to table SQL automatically creates foreign keys I did not have that feature in Azure Studio so I could not create foreign keys.