Question 1)

mysql> SOURCE F:/HW2/HW2/world.sql_

Question 2)

a)

b)

c)

```
mysql> SELECT DISTINCT l.`Language`
   -> FROM `country` c
   -> JOIN `countrylanguage` 1 ON c.`Code` = 1.`CountryCode`
   -> WHERE c.`SurfaceArea` > 1000000 AND (l.`Percentage` > 50);
 Language
 Spanish
 English
 Portuguese
 Chinese
 Arabic
 Greenlandic
 Mongolian
 Hassaniya
 Hausa
 Russian
10 rows in set (0.08 sec)
```

d)

```
nysql> SELECT c.`Code`, c.`Name` AS 'Country Name'
   -> FROM `country` c
-> FROM `country` c
-> JOIN `city` ci ON c.`Code` = ci.`CountryCode`
-> JOIN `countrylanguage` cl ON c.`Code` = cl.`CountryCode`
-> WHERE ci.`Population` < 90000 AND cl.`Language` = 'German' AND (cl.`Percentage` > 1);
 Code | Country Name
 CAN
           Canada
 CAN
           Canada
 DEU
           Germany
 DEU
           Germany
           Liechtenstein
 LIE
 LIE
           Liechtenstein
         Luxembourg
 LUX
 rows in set (0.08 sec)
```

Question 3)

a)

```
mysql> CREATE TABLE restaurant (
-> ID INT NOT NULL,
-> name VARCHAR(255) NOT NULL,
-> type VARCHAR(255) NOT NULL,
-> rating INT NOT NULL,
-> PRIMARY KEY (ID),
-> UNIQUE (ID),
-> CHECK (rating BETWEEN 1 AND 5)
-> );
Query OK, 0 rows affected (0.10 sec)
```

b)

```
mysql> INSERT INTO restaurant
-> VALUES
-> (1, "Gulbarin Macin", "French",5);
Query OK, 1 row affected (0.07 sec)
```

```
-> VALUES
-> (2, 'El Taquito Loco', 'Mexican', 4),
-> (3, 'The Greek Taverna', 'Greek', 5),
-> (4, 'The Wok Inn', 'Chinese', 3),
-> (5, 'La Pizzeria Bella', 'Italian', 4),
-> (6, 'The Tap House', 'Pub Food', 3),
-> (7, 'Bao Bun House', 'Asian Fusion', 4),
-> (8, 'The Vegan Kitchen', 'Barbecue', 4),
-> (9, 'La Brasserie Belge', 'Belgian', 4),
-> (10, 'The Smokestack BBQ', 'Barbecue', 4),
-> (11, 'Sushi Island', 'Japanese', 3);
ry OK, 10 rows affected (0.02 sec)
      -> VALUES
Query OK, 10 rows affected (0.02 sec)
Records: 10 Duplicates: 0 Warnings: 0
mysql> UPDATE restaurant
      -> SET type = 'Vegan'
-> WHERE name = 'The Vegan Kitchen';
 Query OK, 1 row affected (0.07 sec)
Rows matched: 1 Changed: 1 Warnings: 0
e)
mysql> DELETE FROM restaurant
  -> WHERE name = 'The Tap House';
Query OK, 1 row affected (0.07 sec)
Question 4)
a)
mysql> CREATE TABLE city_restaurant (
      -> city_id INT NOT NULL,
      -> restaurant id INT NOT NULL,
      -> PRIMARY KEY (city_id, restaurant_id),
      -> FOREIGN KEY (city_id) REFERENCES city(ID),
       -> FOREIGN KEY (restaurant id) REFERENCES restaurant(ID)
                0 rows affected (0.03 sec)
b)
mysql> LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/city_restaurant.txt'
  -> INTO TABLE city_restaurant;
Query OK, 21 rows affected (0.09 sec)
Records: 21 Deleted: 0 Skipped: 0 Warnings: 0
```

mysql> INSERT INTO restaurant

d) mysql> select cr.restaurant_id from city c, city_restaurant cr where cr.city_id = c. ID AND c.Name = 'Manchester' except -> select cr.restaurant_id from city c, city_restaurant cr where cr.city_id = c. ID AND c.Name = 'Liverpool'; +----+ | restaurant_id | 3 8 9 4 rows in set (0.00 sec) mysql> select r.ID, r.name from restaurant r where r.ID in (select cr.restaurant_id from city c, city_restaurant cr where cr.city_id = c.ID AND c.Name = 'Manchester' ex cept select cr.restaurant_id from city c, city_restaurant cr where cr.city_id = c.ID AND c.Name = 'Liverpool'); ----+------| ID | name 3 | The Greek Taverna 7 | Bao Bun House 8 | The Vegan Kitchen 9 | La Brasserie Belge |

e)

+----+----+ 4 rows in set (0.00 sec)

g)

```
mysql> select crt.Name from country crt where crt.Code in
   -> (select distinct c.CountryCode from city c where c.ID not in
   -> (select cr.city_id from city_restaurant cr));
```

		France	I FRA	
		Faroe Islands	FRO	
		Micronesia, Federated States of	FSM	
		Gabon	GAB	
		United Kingdom	GBR GEO	
		Georgia Ghana	GEO	
		Gibraltar	GIB	
		Guinea	GIN	
		Guadeloupe	GLP	
		Gambia	GMB	
		Guinea-Bissau	GNB	
		Equatorial Guinea	GNQ	
	++	Greece	GRC	
Name	Code	Grenada	GRD	
Aruba	+ ABW	Greenland	GRL	
Afghanistan	AFG	Guatemala	GTM	
Angola	AGO	French Guiana	GUF GUM	
Anguilla Albania	AIA ALB	Guam Guyana	GUY	
Andorra	AND	Hong Kong	HKG	
Netherlands Antilles United Arab Emirates	ANT ARE	Honduras	HND	
United Arab Emirates Argentina	ARE ARG	Croatia	HRV	
Armenia	ARM	Haiti	HTI	
American Samoa Antigua and Barbuda	ASM ATG	Hungary	HUN	
Antigua and barbuda Australia	I AUS I	Indonesia	IDN	
Austria	AUT	India	IND	
Azerbaijan Burundi	AZE BDI	Ireland	IRL	
Belgium	BEL	Iran	IRN	
Benin	į BEN į	Iraq Iceland	IRQ ISL	
Burkina Faso Bangladesh	BFA BGD	Israel	ISR I	
Bulgaria	BGR	Italy	ITA	
Bahrain	BHR	Jamaica	JAM	
Bahamas Bosnia and Herzegovina	BHS BIH	Jordan	JOR	
Belarus	BLR	Japan	JPN	
Belize	BLZ	Kazakstan	KAZ	
Bermuda Bolivia	BMU BOI	Kenya	KEN	
Brazil	BRA	Kyrgyzstan	KGZ	
Barbados	BRB	Cambodia	KHM	
Brunei Bhutan	BRN BTN	Kiribati	KIR	
Botswana	BWA	Saint Kitts and Nevis South Korea	KNA KOR	
Central African Republic	CAF	South Korea Kuwait	KWT	
Canada Cocos (Keeling) Islands	CAN CCK	Laos	LAO	
Switzerland	CHE	Lebanon	LBN	
Chile	CHL	Liberia	LBR	
China Côte d'Ivoire	CHN CIV	Libyan Arab Jamahiriya	LBY	
Cameroon	CMR	Saint Lucia	LCA	
Congo, The Democratic Republic of the	COD	Liechtenstein	LIE	
Congo Cook Islands	COG COK	Sri Lanka	LKA	
Colombia	COL	Lesotho	LSO	
Comoros	COM	Lithuania	LTU	
Cape Verde Costa Rica	CPV CRI	Luxembourg Latvia	LUX LVA	
Cuba	CUB	Latvia Macao	MAC	
Christmas Island	CXR	Morocco	MAR	
Cayman Islands Cyprus	CYM CYP	Monaco	MCO	
Czech Republic	CZE	Moldova	MDA	
Germany Djibouti	DEU	Madagascar	MDG	
Djibouti Dominica	DJI DMA	Maldives	MDV	
Denmark	DNK	Mexico	MEX	
Dominican Republic	DOM DZA	Marshall Islands	MHL	
Algeria Ecuador	DZA ECU	Macedonia	MKD	
Egypt	EGY	Mali	MLI	
Eritrea Western Sahara	ERI ESH	Malta Myanmar	MLT MMR	
Western Sahara Spain	ESP	myanmar Mongolia	MNG	
Estonia	EST	Northern Mariana Islands	MNP	
Ethiopia Finland	ETH FIN	Mozambique	MOZ	
Finland Fiji Islands	FIN	Mauritania	MRT	
Falkland Islands	İ FLK İ	Montserrat	MSR	

		_	
Montserrat Martinique	MSR		
Martinique Mauritius	MTQ MUS		
Malawi	MWI		
Malaysia Mayotte	MYS MYT		
Namibia	NAM		
New Caledonia	NCL		
Niger Norfolk Island	NER NFK		
Nigeria	NGA		
Nicaragua Niue	NIC NIU		
Netherlands	NLD		
Norway Nepal	NOR		
Nauru	NRU		
New Zealand	NZL		
Oman Pakistan	OMN PAK		
Panama	PAN		
Pitcairn Peru	PCN PER		
Philippines	PHL		
Palau Papua New Guinea	PLW PNG	1 101020	
Poland	POL	Taiwan	i twn i
Puerto Rico	PRI		
North Korea Portugal	PRK PRT	Tanzania	TZA
Paraguay	PRY	Uganda	I UGA I
Palestine French Polynesia	PSE PYF		UKR
Qatar	QAT	Ukraine	
Réunion Romania	REU	Uruguay	URY
Russian Federation	RUS	United States	l USA İ
Rwanda Saudi Arabia	RWA		
Sudan	SDN	Uzbekistan	UZB
Senegal Singapore	SEN SEN	Holy See (Vatican City State)	VAT
Saint Helena	SHN	Saint Vincent and the Grenadines	i vct i
Svalbard and Jan Mayen Solomon Islands	SJM SLB	!	
Sierra Leone	SLE	Venezuela	VEN
El Salvador	SLV	Virgin Islands, British	l VGB l
San Marino Somalia	SMK	Virgin Islands, U.S.	VIR
Saint Pierre and Miquelon	SPM		
Sao Tome and Principe Suriname	STP SUR	Vietnam	VNM
Slovakia	SVK	Vanuatu	I VUT I
Slovenia Sweden	SVN SWE	Wallis and Futuna	WLF
Swaziland	SWZ		
Seychelles Svria	SYC SYR	Samoa	WSM
Turks and Caicos Islands	į TCA į	Yemen	I YEM I
Chad Togo	TCD TGO		
Thailand	THA	Yugoslavia	YUG
Tajikistan Tokelau	TJK TKL	South Africa	ZAF
Turkmenistan	TKM	Zambia	i zmb i
East Timor Tonga	TMP TON		
Trinidad and Tobago	TTO	Zimbabwe	ZWE
Tunisia Turkev	TUN	+	++
Turkey Tuvalu	TUR TUV	232 rows in set (0.00 sec)	
Taiwan	i TWN	232 TOWS IN SEC (0.00 Sec)	

Question 5)

C:\Program Files\MySQL\MySQL Server 8.0\bin>mysqldump -u root -p world > F:/HW2/HW2/world-export.sql Enter password: ********