CS 306 Project Step 2

Group 7

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Create MySQL Database and create table SQL statements:

In this step of the project we created a database called as 306_step2 and then we created 5 tables. There are tables for 4 weak entity sets and the other entity set. Therefore there are tables for countries, HIV cases, HIV funding, HIV education and HIV death. Since countries are connected to 4 other weak entities, we didn't create tables for the relationships. After we created tables on MySQL, we inserted data on csv files into previously created tables. Csv files we used are annual.csv, expend.csv, knowledge.csv and woman.csv. Annual.csv file was inserted into HIV_death table, expend.csv file was inserted into HIV_funding table, knowledge.csv file was inserted into HIV_education and finally woman.csv file was inserted into HIV_cases table. Also since all datasets consist of countries data one of them was chosen to insert into countries table. In this case we chose annual.csv to import data into countries table. We updated names of the attributes in order to find and use variables on excel files more easier. Updated ER diagram was uploaded to github repository. Finally log file and sql_actions_local_Serves files were uploaded to github, as well. These are the statements:

Statements for creating tables:

CREATE TABLE countries (
  ISOYEAR VARCHAR(50) NOT NULL,
  country_name VARCHAR(50) NOT NULL,
  PRIMARY KEY (ISOYEAR)
);

CREATE TABLE HIV_cases (
   dyear int NOT NULL,
  woman_ratio REAL NOT NULL,
  ISOYEAR VARCHAR(50) NOT NULL,
  PRIMARY KEY (dyear, ISOYEAR),
  FOREIGN KEY (ISOYEAR) REFERENCES countries(ISOYEAR) ON DELETE CASCADE
);

CREATE TABLE HIV_funding (
dyear int NOT NULL,
  total_funding REAL NOT NULL,

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  ISOYEAR VARCHAR(50) NOT NULL,
  PRIMARY KEY (dyear, ISOYEAR),
  FOREIGN KEY (ISOYEAR) REFERENCES countries(ISOYEAR) ON DELETE CASCADE
);

CREATE TABLE HIV_education (
  dyear int NOT NULL,
  total_knowledge_rate REAL NOT NULL,
  ISOYEAR VARCHAR(50) NOT NULL,
  PRIMARY KEY (dyear, ISOYEAR),
  FOREIGN KEY (ISOYEAR) REFERENCES countries(ISOYEAR) ON DELETE CASCADE
);

CREATE TABLE HIV_death (
dyear int NOT NULL,
  death_num REAL NOT NULL,
  ISOYEAR VARCHAR(50) NOT NULL,
  PRIMARY KEY (dyear, ISOYEAR),
  FOREIGN KEY (ISOYEAR) REFERENCES countries(ISOYEAR) ON DELETE CASCADE
);
```

Statements for inserting data in csv files into tables:

```
SET FOREIGN_KEY_CHECKS = 0;
SELECT * FROM 306_step2.annual;
SELECT * FROM 306_step2.expend;
SELECT * FROM 306_step2.woman;
SELECT * FROM 306_step2.knowledge;

SELECT * FROM 306_step2.countries;
SELECT * FROM 306_step2.HIV_death;
SELECT * FROM 306_step2.HIV_education;
SELECT * FROM 306_step2.HIV_cases;
SELECT * FROM 306_step2.HIV_funding;

INSERT INTO countries (country_name, ISOYEAR )
SELECT country_name, ISOYEAR
FROM annual;

INSERT INTO HIV_education (dyear, total_knowledge_rate, ISOYEAR )
SELECT dyear, total_knowledge_rate, ISOYEAR
FROM knowledge;
```

INSERT INTO HIV_death (dyear, death_num, ISOYEAR)
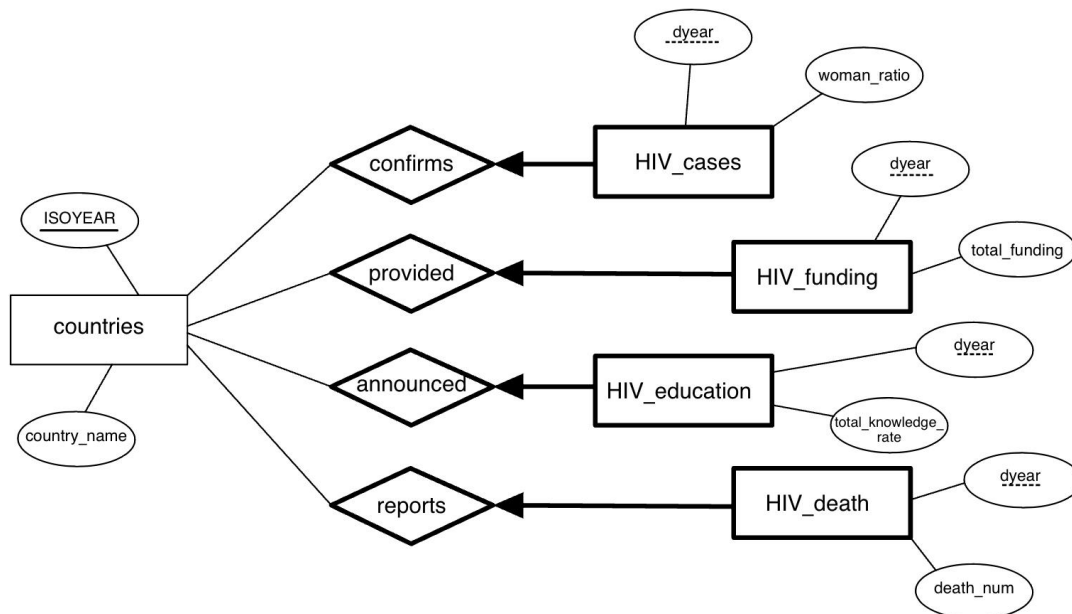SELECT dyear, death_num, ISOYEAR
FROM annual;

INSERT INTO HIV_funding (dyear, total_funding, ISOYEAR)
SELECT dyear, total_funding, ISOYEAR
FROM expend;

INSERT INTO HIV_cases (dyear,woman_ratio, ISOYEAR)
SELECT dyear,woman_ratio, ISOYEAR
FROM woman;

SET FOREIGN_KEY_CHECKS = 1;

Updates:

We changed names of some attributes in the csv datasets in order to find and work easier. We changed ISO_code with ISOYEAR in countries entity. We changed date with dyear in all weak entity sets. Updated version of the ER diagram is given below:

Link to repository: https://github.com/xmrvx/CS306-project-group7