**Task 2**

The DB diagram shows the partial relationship and constraints.

Based on the diagram, review the data in the attached excel sheet and extract the valid data only.

School

Student

School ID (R,U)

School Name (R, U)

Gender (R)

Religion (R)

National ID (R,U)

English Name (English First Name, English Second Name, English Third Name, English Fourth Name, English Family Name) (R,U)

English First Name (R)

English Family Name (R)

Birth Country (R)

Nationality (R)

Gender (R)

Religion (R)

Nationality Category (R)

School ID (Ref, R)

Notes:

* National ID must start with 1234 and must be 10 digits
* If school gender doesn’t accept mixed, it student’s gender must match school gender.

**Answer**

**// Filter School sheet**

CREATE TABLE ValidSchool AS

SELECT DISTINCT "School ID (R,U)", "School Name (R, U)", "School\_Gender (R)", "School\_Religion (R)"

FROM School

WHERE "School ID (R,U)" IS NOT NULL AND "School Name (R, U)" IS NOT NULL;

//------------------------------------------------------------------------------------------------------------------------//

**//Merge two sheets then Filter them**

CREATE TABLE ValidData AS

SELECT

s.\*,

v."School\_Gender (R)"

FROM Student s

JOIN ValidSchool v ON s."School ID (Ref, R)" = v."School ID (R,U)"

WHERE

s."National ID (R,U)" LIKE '1234%' AND LENGTH(s."National ID (R,U)") = 10

AND v."School\_Gender (R)" = 'Mixed' OR v."School\_Gender (R)" = s."Gender (R)";

//------------------------------------------------------------------------------------------------------------------------//

-- Drop duplicate values

CREATE TABLE FinalValidData AS

SELECT DISTINCT \*

FROM ValidData

WHERE "National ID (R,U)" IS NOT NULL

AND "English First Name (R)" IS NOT NULL

AND "English Family Name (R)" IS NOT NULL

AND "Birth Country (R)" IS NOT NULL

AND "Nationality (R)" IS NOT NULL

AND "Gender (R)" IS NOT NULL

AND "Religion (R)" IS NOT NULL

AND "Nationality Category (R)" IS NOT NULL

AND "School Name (R, U)" IS NOT NULL;

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