

# SQL Databases

## Exercise

Open the file poly.db.

It contains information from Temasek Polytechnic Full-Time Enrolment Figures Breakdown, Annual dataset accessed on 23 March 2018 from Temasek Polytechnic which is made available under the terms of the Singapore Open Data Licence version 1.0 (<http://www.data.gov.sg>)

The database provides the enrolment in different polytechnic courses in Temasek Polytechnic (TP) by year and gender.

Try to give the SQL to generate the following.

1. List the courses in TP that has more than 250 males in 2017.

```
SELECT course name FROM enrolment WHERE year = 2017 AND  
gender = 'Male' AND count > 250
```

2. List the courses in TP that has no more than 50 females in 2016.

```
SELECT course name FROM enrolment WHERE year = 2016 AND  
gender = 'Female' AND count <= 50
```

3. List out all fields in the table for courses not in School of Informatics & IT in 2016.

```
SELECT * FROM enrolment WHERE year = 2016 and school !=  
'School of Informatics & IT'
```

4. List the largest number of female(s) in a course in 2017.

```
SELECT max(count) FROM enrolment WHERE year = 2017 and  
gender = 'Female'
```

5. List the smallest number of male(s) in a course in 2016.

```
SELECT min(count) FROM enrolment WHERE year = 2016 and  
gender = 'Male'
```

6. Rename the all diplomas called 'Diploma in Cyber & Digital Security' to 'Diploma in Cyber and Digital Security'.

```
UPDATE enrolment SET course name = 'Diploma in Cyber and  
Digital Security' WHERE course name = 'Diploma in Cyber &  
Digital Security'
```

7. Update the table to add 5 students to each gender and each course in School of Design in 2017.

```
UPDATE enrolment SET count = count + 5 WHERE school =  
'School of Design' AND year = 2017
```