

SIT103 Database

Tutorial Exercise 4 Answers

EXERCISE A:

```
SELECT STUDENT_NO
FROM STUDENT_COURSE
WHERE COURSE_CODE = 'BI918'
AND SEM_START = 2;
```

EXERCISE B:

```
SELECT STUDENT.STUDENT_NO, SURNAME || ', ' || GIVEN
FROM STUDENT_COURSE, STUDENT
WHERE COURSE_CODE = 'BI918'
AND SEM_START = 2
AND STUDENT_COURSE.STUDENT_NO = STUDENT.STUDENT_NO;
```

EXERCISE C:

```
SELECT STUDENT.STUDENT_NO, SURNAME || ', ' || GIVEN, COURSE_NAME
FROM STUDENT_COURSE, STUDENT, COURSE
WHERE COURSE.COURSE_CODE = 'BI918'
AND SEM_START = 2
AND STUDENT_COURSE.STUDENT_NO = STUDENT.STUDENT_NO
AND COURSE.COURSE_CODE = STUDENT_COURSE.COURSE_CODE;
```

EXERCISE D:

```
SELECT SURNAME || ', ' || GIVEN AS FULLNAME, PROGRAMME.PROGRAMME_CODE,
       PROGRAMME_NAME
FROM STUDENT, PROGRAMME
WHERE STUDENT.PROGRAMME_CODE = PROGRAMME.PROGRAMME_CODE;
```

EXERCISE E:

```
SELECT STUDENT.STUDENT_NO, PROGRAMME_NAME
FROM STUDENT_COURSE, STUDENT, PROGRAMME
WHERE STUDENT_COURSE.COURSE_CODE = 'BI958'
AND SEM_START = 2
AND STUDENT.STUDENT_NO = STUDENT_COURSE.STUDENT_NO
AND PROGRAMME.PROGRAMME_CODE = STUDENT.PROGRAMME_CODE;
```

EXERCISE F:

```
SELECT STUDENT_NO, COUNT(*)
FROM STUDENT_COURSE
GROUP BY STUDENT_NO;
```

EXERCISE G:

```
SELECT COURSE_CODE, COUNT(*)
FROM STUDENT_COURSE
WHERE SEM_START = 1
GROUP BY COURSE_CODE;
```

EXERCISE H:

```
SELECT COURSE.COURSE_CODE, COURSE_NAME, COUNT(*)
FROM STUDENT_COURSE, COURSE
WHERE SEM_START = 1
AND COURSE.COURSE_CODE = STUDENT_COURSE.COURSE_CODE
GROUP BY COURSE.COURSE_CODE, COURSE_NAME;
```

EXERCISE I:

```
SELECT DISTINCT SURNAME || ', ' || GIVEN AS FULLNAME,  
               FLOOR((SYSDATE - DOB)/365.25), PROGRAMME_NAME  
FROM STUDENT_COURSE, STUDENT, PROGRAMME  
WHERE COURSE_CODE = 'AC459'  
AND STUDENT_COURSE.STUDENT_NO = STUDENT.STUDENT_NO  
AND PROGRAMME.PROGRAMME_CODE = STUDENT.PROGRAMME_CODE;
```

EXERCISE J:

```
SELECT DISTINCT SURNAME || ', ' || GIVEN AS FULLNAME,  
               FLOOR((SYSDATE - DOB)/365.25), PROGRAMME_NAME  
FROM STUDENT_COURSE, STUDENT, PROGRAMME  
WHERE COURSE_CODE = 'AC459'  
AND STUDENT_COURSE.STUDENT_NO = STUDENT.STUDENT_NO  
AND PROGRAMME.PROGRAMME_CODE = STUDENT.PROGRAMME_CODE  
AND ((SYSDATE - DOB)/365.25) > 30;
```