

Exercise 4

Question 1

```
SELECT student_id,  
       student_name,  
       grade  
FROM students AS A  
INNER JOIN grade AS B  
ON A.student_id = B.student_id
```

Student-id	student-name	grade
2	Bob	B
3	Charlie	C

Question 2

```
SELECT emp_id,  
       emp_name,  
       dept_name  
FROM employees AS A  
LEFT JOIN departments AS B  
ON A.emp_id = B.emp_id
```

emp_id	emp_name	dept_name
1	John	NULL
2	Lisa	HR
3	Mike	NULL

Question 3

```
SELECT product_id,  
       product_name,  
       quantity  
FROM products AS A
```

FULL OUTER JOIN sales AS B
ON A.product-id = B.product-id;

Product-id	Product-name	quantity
1	Laptop	NULL
2	Mouse	50
3	Keyboard	NULL
4	NULL	30

Question 5

```
SELECT region-id,  
       region-name,  
       SUM(amount) AS total-sales  
FROM region AS A  
LEFT JOIN sales AS B  
ON A.region-id = B.region-id  
GROUP BY A.region-id, region-name;
```

Question 6

```
SELECT student-id,  
       name,  
       day-present,
```

CASE

WHEN days-present >= 15 THEN 'Excellent'

WHEN days-present BETWEEN 6 AND 14 THEN 'Need improvement'

WHEN days-present <= 5 THEN 'Poor Attendance'

ELSE 'No record'

END AS attendance-status

FROM students AS A

LEFT JOIN attendance AS B

ON A.student-id = B.student-id;

student-id	name	days-present	attendance-status
1	Alice	18	Excellent
2	Bob	5	Poor attendance
3	Charlie	NULL	No record

Question 7

```

SELECT project-id,
       name
COUNT(task-id) AS task-count
FROM projects AS A
INNER JOIN task AS B
ON A.project-id = B.project-id
GROUP BY A.Project-id, name;
    
```

project-id	name	task-count
1	AI Chatbot	2
2	Website	1

Question 9

```

SELECT user-id,
       name,
COUNT(login-date) AS login-count
FROM users AS A
LEFT JOIN logins AS B
ON A.user-id = B.user-id
GROUP BY A.user-id, name
ORDER BY login-count DESC;
    
```

User-id	Name	Login-count
2	Gloria	2
3	Steve	1
1	Nelson	0