

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,
       days-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