Exercise 4

1. Select student id, student name, grade
From students
As a Inner Join grades as B on A student_id
= B student_id

Student_id	Student name	Grade
2	Bob	B
3	Charlie	A

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	Department
1	John	null
2	Lisa	HR
3	Mike	null

3. Select product ~~nam~~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	50

4. Select order_id, customer_id, amount, customer name
From orders AS a left join customers
AS B on A customer id = B customer id
~~Cast~~
~~Cust~~

Order id	customer id	customer name	Amount
1	101	Paul	500
2	102	Sarah	300
3	105	null	0

5. Select, region_id, sum (amount) as total sale
From sales
Group by region_id

5. Select, region_id, sum (amount) as total sales
From sales AS a left join region
~~LEFT JOIN~~ AS B on A. region id = B. region id
Group by region_id,
Order by region id,

Region	Region name	total sales
1	North	2000
2	South	3500

6. Select student_id, name, days_present
From students as a left join attendances
AS B on A. student_id = B. student id
Case
when days_present < 5 then 'Poor attendance
when days_present is between 5-19 then needs improvement
When days_present is equal to 19 or greater than 19 then Excellent
End as attendance status

Student id	Name	days_present	Attendance
1	Alice	18	Excellent
2	Bob	5	Poor attendance
3	Charlie	Null	Null

7 Select project id, name, count (task id) as task count
From projects
As a Inner Join ~~project~~ tasks as B on ~~project~~ A
project_id = B project id
Group by project id, name;

Project ~~name~~ id	Name	task count
1	AI chatbot	2
2	website	1

8. Select coalesce (A. cust_id, B. cust_id) AS cust id
~~#~~ order_total, return_total, case
When return_total is not null then 'Returned'
Else 'No return'
End as return_status
from orders AS A full ~~left~~ outer join returns AS B ON
A. cust_id = B. cust_id
Where order_total > 100;

Cust_id	order_total	return_total	return_status
11	120	20	returned
12	260	Null	No return
13	180	null	No return

9. Select A. 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 log_count Desc;

User_id	name	Login_count
2	Gloria	2
3	Steve	1
1	Nelson	0

10. Select A. teacher_id, A. teacher name, B. subject_name
From teachers as A left join subjects as B on A teacher_id = B. teacher_id
Order by teacher_name asc;

Teacher_id	teacher_name	subject_name
3	Mr. Dlamini	No Subject assigned
1	Mr. Hlongwane	Math
1	Mrr Hlongwane	Science
2	Ms Ndaba	No subject assigned