

Exercise 5 : Arithmetic Operators

Q1: Calculate total pay by adding base_salary and bonus.

```
SELECT emp-id, name, (base_salary + bonus) AS  
total-pay  
FROM salaries;
```

~~2. SELECT order~~

emp_id	name	total-pay
1	Alice	4500
2	Bob	3800
3	Carol	4500

2. SELECT order-id, (item_price * quantity) AS
total-cost
~~total-order-cost~~
FROM Orders;

order_id	total-cost
101	60
102	75
103	80

3. SELECT expense_id,
 (budget - actual cost) AS variance
 FROM Expenses;

expense_id	Variance
1	150
2	-100
3	0

4. SELECT sale_id,
 (total_revenue / num_customers) AS avg-per-customer
 FROM sales;

sale_id	avg-per-customer
1	120
2	150
3	100

5. SELECT product_id,
 (stock - sold) AS remaining-stock
 FROM Products;

Productid	remaining-stock
1	55
2	30
3	0

6. SELECT batch-id,
 $\left[\frac{\text{items_total} - (\text{items_per_box} * 100)}{\text{items_per_box}} \right]$ AS
 leftover_items
 FROM batches;

batch-id	leftover_items
1	19,4
2	17,2
3	16

7. SELECT item-id,
 (original_price * discount_rate) AS discounted_price
 FROM discounts;

Item-id	discounted_price
1	10
2	50
3	12

8. SELECT emp-id,
 (hours_worked * hourly_rate) AS weekly_pay
 FROM employees_hours;

emp-id	weekly_pay
1	600
2	684
3	900

9. SELECT vehicle_id,
 (total_miles / fuel_used) AS mpg
FROM vehicles ;

Vehicle_id	Mpg
1	20
2	20
3	20

10. SELECT student_id,
 (course_fee - scholarship_amount) AS net_fee
FROM Tuition ;

Student_id	net_fee
1	1500
2	500
3	1800