

Case When

Name:

Class:

Date:

Key Theory

A CASE WHEN statement in SQL allows for specific lines of SQL to run when certain criteria are met.

When used within a SELECT as a field it can be used to format or operate on data to provide customised information.

```
SELECT fields,  
CASE  
WHEN condition THEN outcome  
WHEN condition THEN outcome  
END AS alias  
FROM table;
```

Example

CASE WHEN creating field to show bonus.

```
SELECT trainer_name, trainer_dob, salary,  
CASE  
WHEN salary <= 40000 THEN salary + 2000  
WHEN salary BETWEEN 40001 AND 85000 THEN salary + 3000  
END AS 'Salary with Bonus'  
FROM teachers;
```

	trainer_name	trainer_dob	salary	Salary with Bonus
▶	Christain	1993-01-01	36618.30600	38618.30600
	Richard	1969-01-01	81600.00000	84600.00000
	Narayan	1982-01-01	102510.10200	NULL
	Richard	2000-06-01	90000.00000	NULL
	Zak	2001-05-01	89000.00000	NULL

Case When

Task 1

Task 1.1

Create a SELECT that uses a CASE WHEN to calculate teachers salary with bonus.

```
SELECT trainer_name, trainer_dob, salary,  
CASE  
    WHEN salary <= 40000 THEN salary + 2000  
END  
FROM teachers;
```

Task 1.2

Add a WHEN that checks the following:

```
WHEN salary BETWEEN 40001 AND 85000 THEN salary + 3000
```

Task 1.3

Add another WHEN so that any staff member earning over 58001 gains a 4000 bonus.

Task 1.4

You may have noticed that the field you have created has an name based upon the CASE.

```
CASE  
WHEN salary <= 40000 THEN salary + 2000  
WHEN salary BETWEEN 40001 AND 85000  
    THEN salary + 3000  
WHEN salary >= 85001 THEN salary + 4000  
END
```

Using AS can you name the field: AS 'salary with bonus.

Case When

Challenges

Challenge 1

CASE can be used with other SQL clauses to create more complex queries.

Add a WHERE so that the query only shows the trainer_names 'Zak' and 'Christain'.

Challenge 2

CASE can also be used with UPDATE so that table data can be updated.

Write an UPDATE so that the salary field is SET using a CASE.

```
UPDATE teachers SET salary =
```

```
CASE
```

```
    WHEN ....
```

```
END
```