

EXERCISE 3

4 Assign a letter grade

```
SELECT student_name,
       score
```

```
CASE WHEN grade < 60 THEN 'F'
```

```
CASE WHEN grade BETWEEN 60 AND 69 THEN 'D'
```

```
CASE WHEN grade BETWEEN 70 AND 79 THEN 'C'
```

```
CASE WHEN grade BETWEEN 80 AND 89 THEN 'B'
```

```
ELSE 'A'
```

```
END AS grade
```

```
FROM students;
```

Student_name	Score	grade
Anna	92	A
Ben	76	C
Cara	59	F
David	83	B
Ella	68	D

5 Label delivery performance

```
SELECT delivery_id,
       delivery_time_min
```

```
CASE WHEN delivery_time ≤ 30 mins THEN 'fast'
```

```
CASE WHEN delivery_time BETWEEN 31 AND 60 THEN 'on time'
```

```
CASE WHEN delivery_time > 60 mins THEN 'late'
```

```
END AS performance
```

```
FROM deliveries;
```

delivery_id	delivery_time_min	Performance
1	45	On time
2	80	late
3	30	fast
4	65	late
5	100	late

6 Convert priority labels

SELECT issue-type,
priority

CASE WHEN priority 1 THEN 'Low'

CASE WHEN priority 2 THEN 'medium'

CASE WHEN priority 3 THEN 'High'

END AS priority-label

FROM tickets.

issue-type	Priority	Priority label
Login issue	1	Low
Server down	3	High
Slow system	2	medium
Email erro	2	medium
Password req	1	Low

7 Calculate attendance % and classip

Percentage Calculation

$$\frac{50}{1} \times \frac{45}{100} = 90\%$$

SELECT student_id
attendance_percentage

$$\frac{50}{30} \times \frac{30}{100} = 60\%$$

CASE WHEN percentage < 75% THEN 'Needs improvement'

CASE WHEN percentage BETWEEN 75 AND 85 THEN 'Good'

$$\frac{56}{1} \times \frac{45}{100} = 96\%$$

CASE WHEN percentage > 90 THEN 'Excellent'

END AS attendance_status

$$\frac{55}{1} \times \frac{20}{100} = 50\%$$

FROM student_id

$$\frac{50}{4} \times \frac{80}{100} = 100\%$$

Student - Id	Attendance - %	Attendance - Status
1	90%	Excellent
2	60%	Needs imro
3	96%	Excellent
4	50%	needs improvement
5	100%	Excellent

8) Label Stock Status

SELECT product - id,
Stock - qty

CASE WHEN status '0' THEN 'out of stock'

CASE WHEN status BETWEEN 1 AND 3 THEN 'Low stock'

CASE WHEN status 5 THEN 'In stock'

END AS stock status

FROM products ;

Product - Id	Stock - qty	Stock Status
1	5	In stock
2	0	Out of stock
3	25	In stock
4	10	In stock
5	3	Low stock