Database development and evaluation

Part one-Retrieving Data from SQL

* SELECT shopper\_first\_name, shopper\_surname, shopper\_email\_address, FLOOR((JULIANDAY(DATETIME('now'))-JULIANDAY(date\_of\_birth))/365) AS 'Age', STRFTIME('%d-%m-%Y',date\_joined) AS 'Date joined in DD-MM-YYYY format'

FROM shoppers

WHERE date\_of\_birth > date('2020-01-01','-29 years')

AND date\_joined >= '2020-01-01'

ORDER BY date\_of\_birth ASC,shopper\_surname ASC ;



* SELECT shopper\_first\_name, shopper\_surname, s\_o.order\_id,STRFTIME('%d-%m-%Y',s\_o.order\_date) AS 'order date in DD-MM-YYYY format'

,p.product\_description,s.seller\_name, o.quantity,PRINTF('£%.2f',(p\_s.price)) AS 'price',o.ordered\_product\_status

FROM shoppers sh

INNER JOIN shopper\_orders s\_o ON sh.shopper\_id = s\_o.shopper\_id

INNER JOIN ordered\_products o ON o.order\_id = s\_o.order\_id

INNER JOIN sellers s ON s.seller\_id = o.seller\_id

INNER JOIN product\_sellers p\_s ON p\_s.seller\_id = s.seller\_id

INNER JOIN products p ON p.product\_id = p\_s.product\_id

WHERE sh.shopper\_id = @Shoppers

ORDER BY order\_date DESC;















* SELECT s.seller\_account\_ref, s.seller\_name,p.product\_code,p.product\_description,COUNT(o\_p.order\_id) AS 'Number of orders', COUNT(o\_p.order\_id\*o\_p.quantity) AS 'Total Quantity sold', PRINTF('£%.2f',SUM(o\_p.price \* o\_p.quantity)) AS 'Total value of sales'

FROM sellers s

INNER JOIN ordered\_products o\_p ON o\_p.seller\_id = s.seller\_id

INNER JOIN products p ON p.product\_id = o\_p.product\_id

INNER JOIN shopper\_orders sh ON sh.order\_id = o\_p.order\_id

LEFT JOIN product\_sellers p\_s ON p\_s.product\_id = o\_p.order\_id

where order\_date BETWEEN '2019-06-01' AND date('now')

AND o\_p.order\_id IS NULL = 0

GROUP BY s.seller\_name, p.product\_description



* SELECT c.category\_description, p.product\_code, p.product\_description,ROUND(AVG(o\_p.quantity)) AS 'Average quantity sold'

FROM products p

INNER JOIN categories c ON c.category\_id = p.category\_id

INNER JOIN ordered\_products o\_p ON o\_p.product\_id = p.product\_id

WHERE o\_p.quantity <= (SELECT ROUND( AVG(quantity)) AS 'Average quantity sold'

FROM ordered\_products)

AND o\_p.ordered\_product\_status IS NOT 'Cancelled'

GROUP BY c.category\_description , p.product\_description

