# SQL - revision

Data is extracted and changed using queries

These are written in **Structured Query Language (SQL)** 

#### Four types of query:

- 1. SELECT (SFWO)
- 2. INSERT INTO (IV)
- 3. UPDATE (USW)
- 4. DELETE (DW)

## **SQL Commands - SELECT**

```
SELECT ProductName, Price, Stock
FROM foods
WHERE Price >= 1
ORDER BY Price ASC;
```

NB: basic query type only - see next slide for multi-table SELECT

### Multi-table SELECT

```
SELECT Airport.AirportName,
Airport.Terminals, Country.Currency
FROM Airport, Country
WHERE Airport.Terminals > 2 AND
Airport.CountryName = Country.CountryName
ORDER BY Airport.AirportName ASC;
```

- Link the tables using the foreign key in the WHERE
- The AND is really important in the WHERE
- Use dot notation everytime you reference a field

## **SQL Commands - INSERT**

```
INSERT INTO foods (ProductCode,
ProductName, Price, SupplierID,
Stock)

VALUES ("1321T", "Chopped Tomatoes",
0.75, "S121/A", 17);
```

- Note the use of quotes for strings

# **SQL Commands - UPDATE**

```
UPDATE foods
SET Stock = 15
WHERE ProductCode = "1239T";
```

- Always use the primary key for WHERE

## **SQL Commands - DELETE**

```
DELETE FROM foods
WHERE ProductCode = "4550F";
```

- The "quotes" are important where fields are data type string
- Always use the primary key for WHERE