

# COMP9318: Assignment 1

Wanze Liu (z5137189)

UNSW

School of Computer Science and Engineering

Sydney, Australia

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## Question 1

### 1.1

Location	Time	Item	Quantity
ALL	2006	PS2	1500
ALL	2006	Wii	500
ALL	2006	ALL	2000
ALL	2005	PS2	1400
ALL	2005	XBox 360	1700
ALL	2005	ALL	3100
ALL	ALL	PS2	2900
ALL	ALL	Wii	500
ALL	ALL	XBox 360	1700
ALL	ALL	ALL	5100
Melbourne	2005	XBox 360	1700
Melbourne	2005	ALL	1700
Melbourne	ALL	XBox 360	1700
Melbourne	ALL	ALL	1700
Sydney	2006	PS2	1500
Sydney	2006	Wii	500
Sydney	2006	ALL	2000
Sydney	2005	PS2	1400
Sydney	2005	ALL	1400
Sydney	ALL	PS2	2900
Sydney	ALL	Wii	500
Sydney	ALL	ALL	3400

### 1.2

```
SELECT Location, Time, Item, SUM(Quantity)
FROM Sales
GROUP BY Location, Time, Item
UNION ALL
SELECT NULL, Time, Item, SUM(Quantity)
FROM Sales
GROUP BY Time, Item
```

```
UNION ALL
SELECT Location, NULL, Item, SUM(Quantity)
FROM Sales
GROUP BY Location, Item
UNION ALL
SELECT Location, Time, NULL, SUM(Quantity)
FROM Sales
GROUP BY Location, Time
UNION ALL
SELECT NULL, NULL, Item, SUM(Quantity)
FROM Sales
GROUP BY Item
UNION ALL
SELECT NULL, Time, NULL, SUM(Quantity)
FROM Sales
GROUP BY Time
UNION ALL
SELECT Location, NULL, NULL, SUM(Quantity)
FROM Sales
GROUP BY Location
UNION ALL
SELECT NULL, NULL, NULL, SUM(Quantity)
FROM Sales
ORDER by Location, Time, desc;
```