

COMP9318: Assignment 1

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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;

```

1.3

| Location | Time | Item | Quantity |
|----------|------|------|----------|
| Sydney | 2006 | ALL | 2000 |
| ALL | 2005 | ALL | 3100 |
| Sydney | ALL | ALL | 3400 |
| Sydney | ALL | PS2 | 2900 |
| ALL | ALL | PS2 | 2900 |
| ALL | 2006 | PS2 | 2000 |
| ALL | ALL | ALL | 5100 |

1.4