



Government of **Western Australia**  
School Curriculum and Standards Authority



**Western Australian Certificate of Education  
Examination, 2013**

**COMPUTER SCIENCE**  
Stage 3

**SOURCE BOOKLET**

This information relates to questions in Section Two.

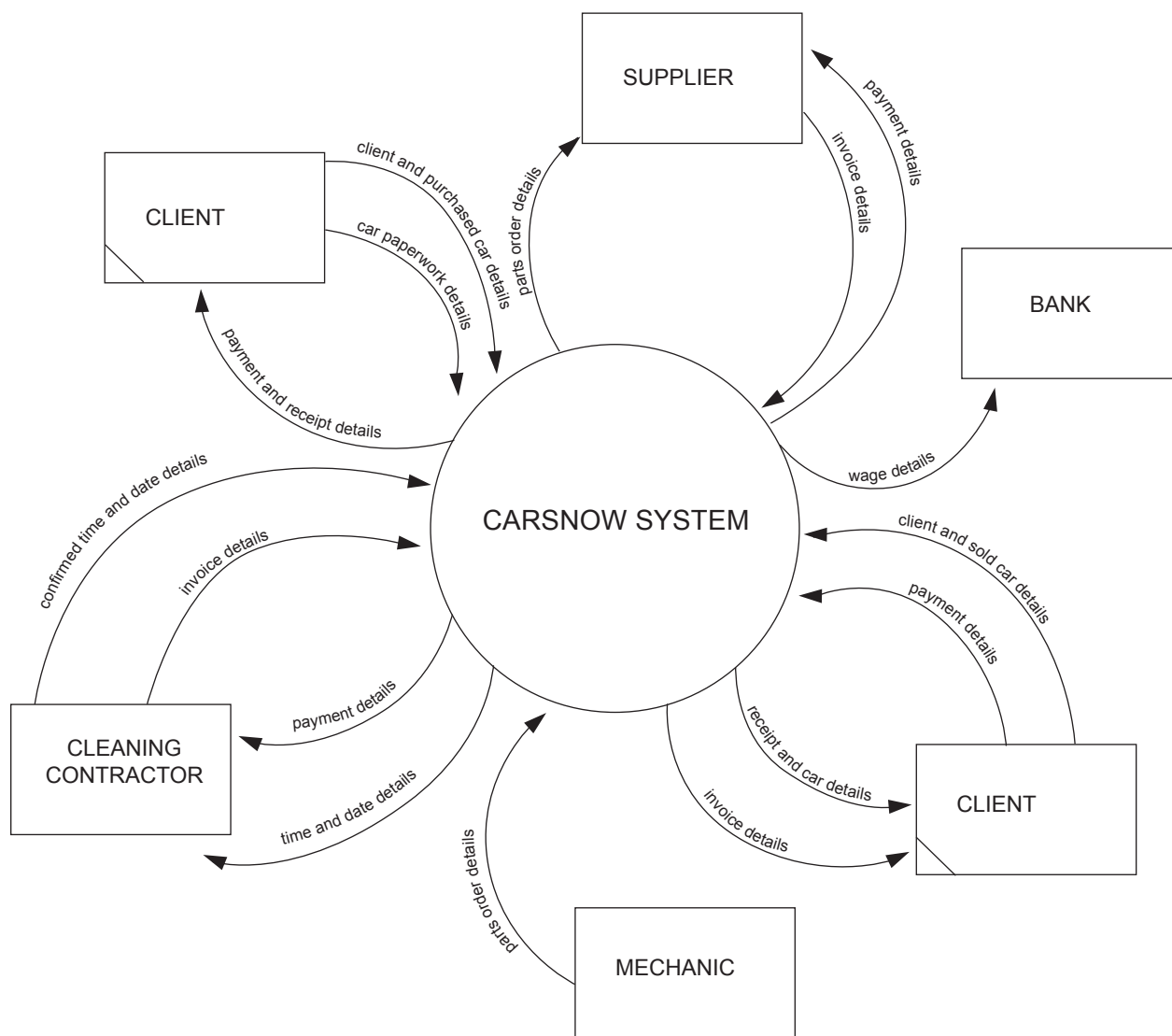
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CarsNow is a used car dealer that buys and sells between seven and 10 cars per day. It has three salespeople who work for a wage plus 10% commission on the total amount of their sales.

- When CarsNow purchase a car from a client, client details are entered into the database by the receptionist.
  - The car and the salesperson's details are entered into the database.
  - The client receives payment and a receipt for the sale of the car within two working days of CarsNow receiving the car.
  - The client provides all the car's paperwork to CarsNow at the time of handover.
- The car is serviced by the mechanic.
  - The mechanic checks the condition of the car in case any replacement parts are required.
  - If parts are needed, a parts order form is filled and sent to the supplier.
  - The supplier sends the parts to CarsNow with an invoice.
  - The invoice details are entered into the database and the amount is paid at the end of the month.
- Cleaning contractors detail the car once the mechanic has finished.
  - Time and date is organised and confirmed.
  - The cleaning contractor completes the car detailing and provides an invoice.
  - The invoice details are entered into the database and the amount paid at the end of the month.
- When CarsNow sell a car, client details are entered into the database.
  - The amount the car was sold for, the date it was sold, the salesperson's details and the car's sold status are updated in the database.
  - The client is provided with an invoice that must be paid before the car is released.
  - All car paperwork, including a receipt, is given to the client.
- At the end of the month, the accounts are checked against the invoices. The supplier and cleaning contractor are paid.
- At the end of the week, each salesperson has their wages and commission deposited into their bank account, based on the total number of cars they have sold.

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The following is a Context Diagram of the current system.



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Question 23

|   |                                     |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
|---|-------------------------------------|-------------------------------------|--------|--|----------|--|-------|--|-----------|-----------|--------|--|------------|--|---------|--|------|--|-------------|--|--|--|-------|--|-----|--|----------|--|---------------------|--|--|--|-------------|--|----------------|----|--|------|--|------|--|---------|
| Invoice Number: <b>4542</b>   | <h2 style="margin: 0;">Invoice</h2> | <h1 style="margin: 0;">CarsNow</h1> |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
| <p><b>Client</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="2">Name:</td></tr> <tr><td colspan="2">Address:</td></tr> <tr><td colspan="2"> </td></tr> <tr><td style="width: 50%;">Suburb:</td><td style="width: 50%;">Postcode:</td></tr> <tr><td colspan="2"> </td></tr> <tr><td colspan="2">Telephone:</td></tr> <tr><td colspan="2">Mobile:</td></tr> </table>  |                                     |                                     | Name:  |  | Address: |  |       |  | Suburb:   | Postcode: |        |  | Telephone: |  | Mobile: |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
| Name:   |                                     |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
| Address:  |                                     |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
|   |                                     |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
| Suburb:   | Postcode:                           |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
|   |                                     |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
| Telephone:  |                                     |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
| Mobile:   |                                     |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%;">Reg No</td><td style="width: 50%;"></td></tr> <tr><td>Make</td><td></td></tr> <tr><td>Model</td><td></td></tr> <tr><td>Body type</td><td></td></tr> <tr><td>Colour</td><td></td></tr> <tr><td>Kilometres</td><td></td></tr> <tr><td colspan="2"> </td></tr> <tr><td>Date</td><td></td></tr> <tr><td>Salesperson</td><td></td></tr> <tr><td colspan="2"> </td></tr> <tr><td>Price</td><td></td></tr> <tr><td>GST</td><td></td></tr> <tr><td>Warranty</td><td></td></tr> <tr><td><b>Total amount</b></td><td></td></tr> <tr><td colspan="2"> </td></tr> <tr><td><b>Date</b></td><td></td></tr> <tr><td><b>Paid by</b></td><td>CC</td></tr> <tr><td></td><td>Cash</td></tr> <tr><td></td><td>Bank</td></tr> <tr><td></td><td>Deposit</td></tr> </table> |                                     |                                     | Reg No |  | Make     |  | Model |  | Body type |           | Colour |  | Kilometres |  |         |  | Date |  | Salesperson |  |  |  | Price |  | GST |  | Warranty |  | <b>Total amount</b> |  |  |  | <b>Date</b> |  | <b>Paid by</b> | CC |  | Cash |  | Bank |  | Deposit |
| Reg No  |                                     |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
| Make  |                                     |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
| Model   |                                     |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
| Body type   |                                     |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
| Colour  |                                     |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
| Kilometres  |                                     |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
|   |                                     |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
| Date  |                                     |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
| Salesperson   |                                     |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
|   |                                     |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
| Price   |                                     |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
| GST   |                                     |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
| Warranty  |                                     |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
| <b>Total amount</b>   |                                     |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
|   |                                     |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
| <b>Date</b>   |                                     |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
| <b>Paid by</b>  | CC                                  |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
|   | Cash                                |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
|   | Bank                                |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
|   | Deposit                             |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
| <p><b>CarsNow's Declaration</b><br/>I certify that the vehicle is roadworthy.</p> <hr/> Salesperson's signature   |                                     |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
| Date  |                                     |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
| <p><b>Client's Declaration</b><br/>I certify that I am the buyer/seller of the car on this invoice at the price stated.</p> <hr/> Client's signature  |                                     |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |
| Date  |                                     |                                     |        |  |          |  |       |  |           |           |        |  |            |  |         |  |      |  |             |  |  |  |       |  |     |  |          |  |                     |  |  |  |             |  |                |    |  |      |  |      |  |         |

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## Question 24(c)

**Reports**

Create Report on Car Colour

Create Report on Car Registration Plates

Create Report on Car Make/Model

Create Report on Car's Build and Year

Create Report on Transactions

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## Question 24(d)

## Report Transactions

| Reg No  | Date of Sale | Purchase Price | Sale Price  | Profit Made |
|---------|--------------|----------------|-------------|-------------|
| 1ANJ057 | 2/03/2013    | \$5,600.00     | \$7,200.00  | \$1,600.00  |
| 1BES567 | 1/02/2013    | \$4,500.00     |             |             |
| 1CAX453 | 4/12/2012    | \$4,500.00     | \$7,000.00  | \$2,500.00  |
| 1CFX546 | 1/03/2013    | \$23,000.00    | \$25,000.00 | \$2,000.00  |
| 1CFX627 | 9/02/2013    | \$3,450.00     | \$5,200.00  | \$1,750.00  |
| 1DNO762 | 1/01/2013    | \$32,155.00    | \$37,000.00 | \$4,845.00  |
| 1DVG771 | 1/03/2013    | \$38,900.00    |             |             |
| 1FES647 | 5/02/2013    | \$27,000.00    |             |             |
| 1HJK987 | 12/02/2013   | \$98,000.00    |             |             |
| 1TOMPOI | 12/03/2013   | \$2,000.00     | \$3,000.00  | \$1,000.00  |

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