```
/***SAS solution codes Q1*******/
PROC EXPORT DATA= WORK.Retail_sales
      OUTFILE= "E:\ALL_BACKUP\homework\hk_ans\retail_sales.csv"
      DBMS=CSV REPLACE;
   PUTNAMES=NO;
RUN;
```

/*COMMENTS:

Actually you can use SAS 'EXPORT WIZARD' to obtain above SAS codes. Where the
'PUTNAMES=NO' option (it can be set in option button in 'EXPORT WIZARD')
enables SAS to export variable names into resulting .CSV file. Therefore the file
'retail_sales.csv' only contains observations of the table 'WORK.Retail_sales'.
*/

```
/***SAS solution codes Q2*******/
/* the export SAS program generated: 'export_retail.sas' */

PROC EXPORT DATA= WORK.Retail_sales
      OUTFILE= "E:\ALL_BACKUP\homework\hk_ans\retail_sales"
      DBMS=DLM REPLACE;
   DELIMITER='7C'x;
   PUTNAMES=YES;
RUN;
```

/*COMMENTS:

Using the SAS 'EXPORT WIZARD' to export the data (choosing to export
delimitated file using '|' as delimiter). The SAS codes can be generated as above.
*/

```
/***SAS solution codes Q3*******/

PROC IMPORT OUT= WORK.retail_sales_1
      DATAFILE= "E:\ALL_BACKUP\homework\hk_ans\retail_sales.csv"
      DBMS=CSV REPLACE;
   GETNAMES=NO;
   DATAROW=1;
RUN;
```

/*COMMENTS:

Note when you import this CSV file without headers (no variable names in the file), you will use the option 'GETNAMES=NO' and 'DATAROW=1' in the SAS procedure 'PROC IMPORT'. When using 'IMPORT WIZARD' to finish the same job, you should also select the same options (clicking option button)
*/

/***SAS solution codes, using PROC IMPORT Q4 *******/

```
PROC IMPORT OUT= WORK.retail_sales_3
       DATAFILE= "E:\ALL_BACKUP\homework\hk_ans\retail_sales"
       DBMS=DLM REPLACE;
   DELIMITER='7C'x;
   GETNAMES=YES;
   DATAROW=2;
RUN;
```

/*COMMENTS:

When using 'IMPORT WIZARD' to finish the same job, you should select the character '|' as delimiter (go to option dialog window by clicking option button).

*/