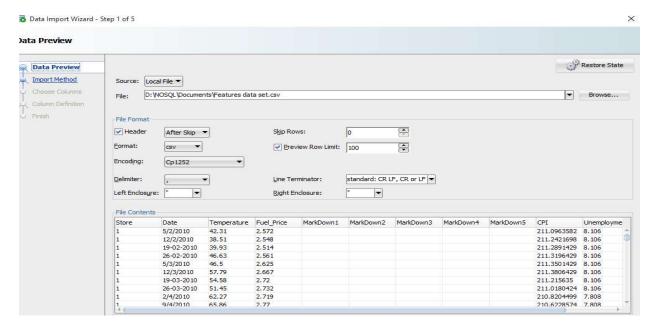
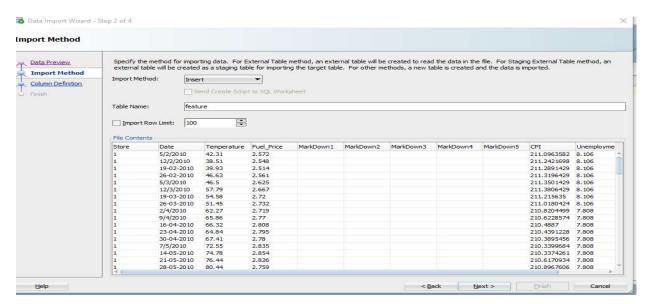
LAB4. RETAIL SALES ANALYTICS PART-

IMPORTING THE STORE, SALES AND FEATURE TABLE

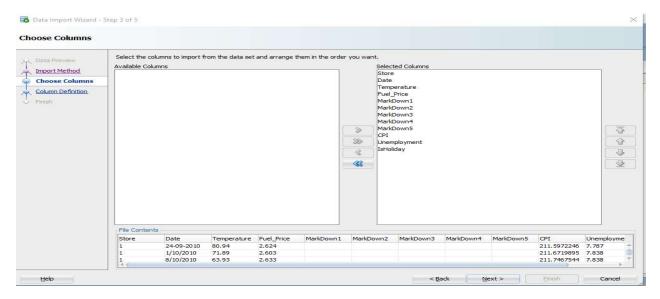
STEP 1: Choose the feature excel sheet file from the local disk and click next.



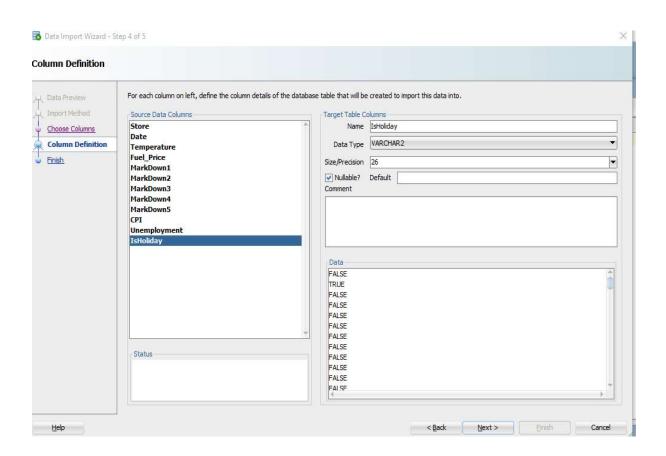
STEP 2: Give the name of the table and click next.



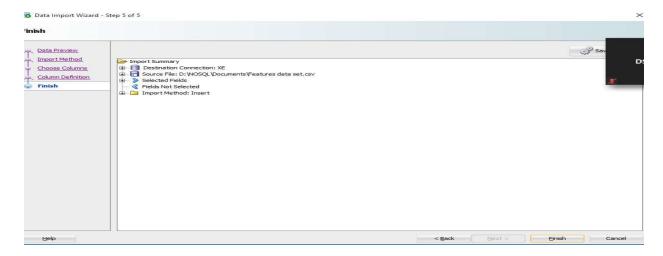
STEP 3: Select the column to import the data set and arrange them in the order we want.



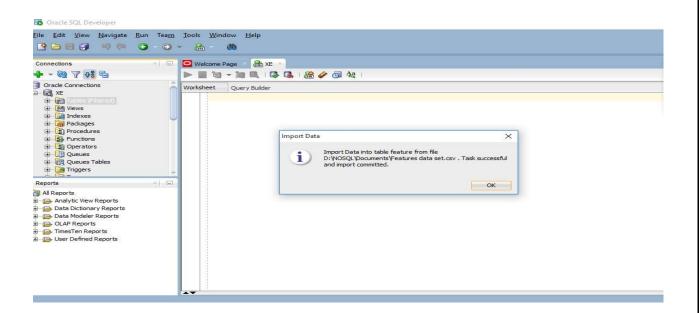
STEP 4: For each column on left, define the column details of the database table that will be created to import the data into.



STEP 5: It will show the connection , source file and click finish.



STEP 6: Once the data is imported it will be show the notification like task successful and imported committed.



Similarly we can import sales and store file in a sql developer.

Question2: Create tables from Excel files. Relate the tables via primary key and foreign key wherever required.

SQL> alter table sales add primary

key(sales_id); Table altered.

SQL>desc sales;

Name	Null?	Туре	
SALES_ID	NOT NULL	NUMBER(38)	
STORE		NUMBER(38)	
DEPT		NUMBER(38)	
F_DATE		VARCHAR2(26)	
WEEKLY_S	ALES	NUMBER(38,2)	
ISHOLIDAY	•	VARCHAR2(26)	

SQL> alter table store add foreign key(store_id) references sales(sales_id); Table altered.

SQL>desc store;

STORE_SIZE

Name	Null?	Туре	
CTORE ID		NUINADED/20)	
STORE_ID		NUMBER(38)	
TYPE		VARCHAR2(26)	

NUMBER(38)

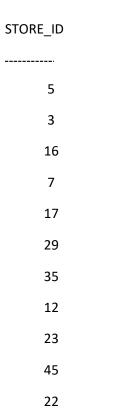
Question3: Write atleast 2 queries to explore each table by using WHERE and ORDERBY

SQL> select store_size from store where type='A' order by store_sizeasc;

STORE_SIZE		
39690		
39910		
151315		
152513		
155078		
155083		
158114		
184109		
196321		
200898		
202307		
STORE_SIZE		
202505		
203007		
203742		
203750		
203819		
205863		
206302		

22 rows selected.

SQL> select store_id from store where type='B' order by store_size;



STORE_ID

18

15

10

25

21

17 rows selected.

SQL> select dept, sales_date from sales where dept=21 and isholiday='TRUE' order by weekly_sales;



21 10-DEC-31 21 11-FEB-11 DEPT SALES_DAT 21 11-DEC-30 21 12-FEB-10 21 10-FEB-12 21 10-SEP-10 21 10-DEC-31 21 11-DEC-30 21 11-SEP-09 21 10-DEC-31 21 11-FEB-11 21 11-DEC-30 21 11-NOV-25 DEPT SALES_DAT 21 12-SEP-07 21 10-NOV-26 21 11-SEP-09 21 11-NOV-25 21 10-NOV-26 21 12-SEP-07 21 12-FEB-10 21 10-SEP-10 21 12-SEP-07

21 11-SEP-09 21 10-FEB-12 DEPT SALES_DAT 21 11-DEC-30 21 12-SEP-07 21 11-DEC-30 21 10-DEC-31 21 10-SEP-10 21 12-FEB-10 21 10-DEC-31 21 11-SEP-09 21 11-SEP-09 21 12-FEB-10 21 11-DEC-30 DEPT SALES_DAT 21 11-FEB-11 21 10-DEC-31 21 12-SEP-07 21 12-SEP-07 21 10-FEB-12 21 12-FEB-10 21 12-FEB-10 21 10-SEP-10 21 10-NOV-26

21 11-FEB-11 21 11-FEB-11 DEPT SALES_DAT 21 10-SEP-10 21 11-FEB-11 21 12-FEB-10 21 12-FEB-10 21 11-DEC-30 21 10-NOV-26 21 12-SEP-07 21 11-SEP-09 21 10-DEC-31 21 11-FEB-11 21 11-NOV-25 DEPT SALES_DAT 21 11-NOV-25 21 11-DEC-30 21 10-FEB-12 21 10-SEP-10 21 11-FEB-11 21 11-SEP-09 21 12-FEB-10 21 10-DEC-31 21 11-SEP-09

21 10-FEB-12 21 11-FEB-11 DEPT SALES_DAT 21 12-SEP-07 21 10-SEP-10 21 10-FEB-12 21 10-SEP-10 21 11-NOV-25 21 10-DEC-31 21 10-NOV-26 21 10-NOV-26 21 10-SEP-10 21 11-NOV-25 21 11-NOV-25 DEPT SALES_DAT 21 11-NOV-25 21 12-SEP-07 21 10-DEC-31 21 10-NOV-26 21 10-FEB-12 21 10-DEC-31 21 10-NOV-26 21 11-SEP-09 21 10-DEC-31

21 10-FEB-12 21 10-DEC-31 DEPT SALES_DAT 21 11-NOV-25 21 10-NOV-26 21 10-FEB-12 21 12-FEB-10 21 12-SEP-07 21 11-FEB-11 21 12-FEB-10 21 10-SEP-10 21 10-DEC-31 21 11-DEC-30 21 12-SEP-07 DEPT SALES_DAT 21 11-DEC-30 21 12-FEB-10 21 10-DEC-31 21 10-SEP-10 21 10-DEC-31 21 11-FEB-11 21 12-SEP-07 21 10-DEC-31 21 12-SEP-07

21 10-DEC-31 21 12-FEB-10 DEPT SALES_DAT 21 10-NOV-26 21 10-DEC-31 21 11-SEP-09 21 11-SEP-09 21 11-DEC-30 21 11-DEC-30 21 11-FEB-11 21 11-DEC-30 21 11-FEB-11 21 10-SEP-10 21 10-FEB-12 DEPT SALES_DAT 21 11-SEP-09 21 10-FEB-12 21 11-FEB-11 21 11-DEC-30 21 11-SEP-09 21 10-FEB-12 21 12-SEP-07 21 10-DEC-31 21 10-DEC-31

21 11-DEC-30 21 11-DEC-30 DEPT SALES_DAT 21 11-SEP-09 21 10-DEC-31 21 11-FEB-11 21 12-FEB-10 21 12-FEB-10 21 11-SEP-09 21 10-DEC-31 21 11-SEP-09 21 10-SEP-10 21 11-SEP-09 21 11-DEC-30 DEPT SALES_DAT 21 10-NOV-26 21 12-SEP-07 21 10-NOV-26 21 12-FEB-10 21 10-NOV-26 21 12-SEP-07 21 10-DEC-31 21 11-DEC-30 21 11-FEB-11

21 10-SEP-10 21 10-DEC-31 DEPT SALES_DAT 21 12-SEP-07 21 10-FEB-12 21 12-SEP-07 21 10-DEC-31 21 11-FEB-11 21 12-SEP-07 21 11-SEP-09 21 11-NOV-25 21 12-SEP-07 21 10-DEC-31 21 11-SEP-09 DEPT SALES_DAT 21 10-FEB-12 21 10-FEB-12 21 12-FEB-10 21 11-SEP-09 21 11-FEB-11 21 11-DEC-30 21 12-FEB-10 21 11-SEP-09 21 12-SEP-07

21 11-DEC-30 21 10-NOV-26 DEPT SALES_DAT 21 10-SEP-10 21 12-SEP-07 21 10-SEP-10 21 11-NOV-25 21 11-NOV-25 21 12-FEB-10 21 12-FEB-10 21 12-FEB-10 21 10-NOV-26 21 12-FEB-10 21 11-NOV-25 DEPT SALES_DAT 21 10-SEP-10 21 12-FEB-10 21 11-FEB-11 21 10-NOV-26 21 10-NOV-26 21 10-FEB-12 21 11-FEB-11 21 12-SEP-07 21 11-SEP-09

21 12-SEP-07 21 10-SEP-10 DEPT SALES_DAT 21 12-SEP-07 21 11-DEC-30 21 10-FEB-12 21 11-SEP-09 21 11-NOV-25 21 12-FEB-10 21 10-SEP-10 21 10-SEP-10 21 11-FEB-11 21 12-SEP-07 21 12-FEB-10 DEPT SALES_DAT 21 11-DEC-30 21 10-SEP-10 21 11-DEC-30 21 11-SEP-09 21 11-DEC-30 21 10-FEB-12 21 10-SEP-10 21 11-FEB-11 21 11-NOV-25

21 10-DEC-31 21 11-DEC-30 DEPT SALES_DAT 21 10-DEC-31 21 10-NOV-26 21 11-SEP-09 21 11-NOV-25 21 11-DEC-30 21 12-FEB-10 21 10-FEB-12 21 10-DEC-31 21 11-DEC-30 21 11-SEP-09 21 10-NOV-26 DEPT SALES_DAT 21 11-FEB-11 21 10-SEP-10 21 10-FEB-12 21 10-FEB-12 21 10-SEP-10 21 12-FEB-10 21 11-SEP-09 21 11-FEB-11 21 10-SEP-10

21 10-NOV-26 21 11-FEB-11 DEPT SALES_DAT 21 11-NOV-25 21 11-NOV-25 21 10-DEC-31 21 11-FEB-11 21 12-FEB-10 21 12-SEP-07 21 10-SEP-10 21 10-DEC-31 21 11-FEB-11 21 10-SEP-10 21 11-FEB-11 DEPT SALES_DAT 21 10-FEB-12 21 11-DEC-30 21 10-DEC-31 21 11-FEB-11 21 11-NOV-25 21 11-SEP-09 21 12-FEB-10 21 10-NOV-26 21 10-FEB-12

21 11-FEB-11 21 10-DEC-31 DEPT SALES_DAT 21 12-FEB-10 21 11-NOV-25 21 11-NOV-25 21 11-NOV-25 21 10-SEP-10 21 11-SEP-09 21 10-NOV-26 21 11-DEC-30 21 11-FEB-11 21 12-FEB-10 21 10-DEC-31 DEPT SALES_DAT 21 10-FEB-12 21 11-FEB-11 21 11-FEB-11 21 11-SEP-09 21 10-DEC-31 21 10-NOV-26 21 10-FEB-12 21 11-NOV-25 21 10-NOV-26

21 10-NOV-26 21 11-SEP-09 DEPT SALES_DAT 21 10-FEB-12 21 12-FEB-10 21 10-NOV-26 21 10-FEB-12 21 11-NOV-25 21 10-SEP-10 21 11-DEC-30 21 11-SEP-09 21 10-NOV-26 21 12-SEP-07 21 12-SEP-07 DEPT SALES_DAT 21 11-NOV-25 21 11-SEP-09 21 11-SEP-09 21 12-SEP-07 21 10-SEP-10 21 12-SEP-07 21 10-DEC-31 21 10-SEP-10 21 11-DEC-30

21 12-FEB-10 21 11-DEC-30 DEPT SALES_DAT 21 10-FEB-12 21 10-FEB-12 21 11-NOV-25 21 11-DEC-30 21 10-FEB-12 21 10-DEC-31 21 11-NOV-25 21 10-FEB-12 21 10-SEP-10 21 11-SEP-09 21 12-SEP-07 DEPT SALES_DAT 21 11-DEC-30 21 10-FEB-12 21 12-SEP-07 21 12-SEP-07 21 10-FEB-12 21 12-SEP-07 21 11-FEB-11 21 11-NOV-25 21 12-FEB-10

21 11-NOV-25 21 12-FEB-10 DEPT SALES_DAT 21 11-DEC-30 21 12-FEB-10 21 11-DEC-30 21 10-DEC-31 21 10-NOV-26 21 10-DEC-31 21 11-FEB-11 21 10-SEP-10 21 11-SEP-09 21 11-FEB-11 21 11-DEC-30 DEPT SALES_DAT 21 10-FEB-12 21 11-DEC-30 21 11-DEC-30 21 10-SEP-10 21 11-SEP-09 21 10-NOV-26 21 11-FEB-11 21 10-SEP-10 21 11-DEC-30

21 10-SEP-10 21 10-NOV-26 DEPT SALES_DAT 21 12-FEB-10 21 10-NOV-26 21 12-SEP-07 21 11-SEP-09 21 10-NOV-26 21 11-FEB-11 21 11-SEP-09 21 12-FEB-10 21 11-NOV-25 21 12-SEP-07 21 12-FEB-10 DEPT SALES_DAT 21 11-NOV-25 21 12-SEP-07 21 11-SEP-09 21 12-SEP-07 21 10-NOV-26 21 10-FEB-12 21 10-SEP-10 21 11-NOV-25 21 11-FEB-11

21 10-DEC-31 21 10-SEP-10 DEPT SALES_DAT 21 11-FEB-11 21 10-SEP-10 21 12-SEP-07 21 10-DEC-31 21 10-FEB-12 21 10-NOV-26 21 10-SEP-10 21 10-FEB-12 21 11-DEC-30 21 12-SEP-07 21 11-FEB-11 DEPT SALES_DAT 21 12-FEB-10 21 12-SEP-07 21 12-FEB-10 21 11-SEP-09 21 11-SEP-09 21 10-FEB-12 21 10-SEP-10 21 12-FEB-10 21 11-DEC-30

21 11-NOV-25 21 11-NOV-25 DEPT SALES_DAT 21 11-NOV-25 21 10-SEP-10 21 10-NOV-26 21 11-FEB-11 21 10-DEC-31 21 11-NOV-25 21 10-FEB-12 21 10-FEB-12 21 10-NOV-26 21 10-NOV-26 21 11-NOV-25 DEPT SALES_DAT 21 10-NOV-26 21 10-FEB-12 21 10-NOV-26 21 10-FEB-12 21 11-NOV-25 21 11-NOV-25 21 12-SEP-07 21 11-NOV-25 21 11-DEC-30

21 10-NOV-26

21 11-FEB-11

DEPT SALES_DAT

21 11-SEP-09

21 10-NOV-26

21 10-SEP-10

21 11-NOV-25

21 12-FEB-10

21 11-NOV-25

21 10-NOV-26

21 10-FEB-12

21 10-NOV-26

21 11-NOV-25

450 rows selected.

SQL> select store_id, dept, weekly_sales from sales where sales_id between 20 and 30 order by weekly_sales desc;

STORE_ID		DEPT WEEKLY_SALES
1	1	17688.76
1	1	17508.41
1	1	17150.84
1	1	16333.14
1	1	16328.72
1	1	16216.27

- 1 1 15793.87
- 1 1 15740.13
- 1 1 15536.4
- 1 1 15381.82
- 1 1 15360.45

11 rows selected.

SQL> select store_id, unemployment, temperature from feature_data where store_id=2 and unemployment<7 order by temperature;

STORE_ID UNEMPLOYMENT TEMPERATURE

- 2 6.237 39.12
- 2 6.237 40.98
- 2 6.17 41.56
- 2 6.237 46.08
- 2 6.237 47.42
- 2 6.17 47.69
- 2 6.237 48.16
- 2 6.237 48.92
- 2 6.237 50.54
- 2 6.237 51.12
- 2 6.237 51.33

STORE_ID UNEMPLOYMENT TEMPERATURE

- 2 6.17 52.64
- 2 6.17 52.72

- 2 6.237 54.75
- 2 6.17 55.14
- 2 6.237 55.14
- 2 6.237 56.08
- 2 6.17 56.4
- 2 6.17 58.06
- 2 6.112 58.13
- 2 6.112 58.3
- 2 6.237 59.97

STORE_ID UNEMPLOYMENT TEMPERATURE

- - 2 6.17 60.97
 - 2 6.112 61.23
 - 2 6.17 61.9
 - 2 6.17 64.19
 - 2 6.891 65.69
 - 2 6.112 67.05
 - 2 6.891 67.2
 - 2 6.17 68.08
 - 2 6.891 68.08
 - 2 6.891 68.43
 - 2 6.17 69.79

STORE_ID UNEMPLOYMENT TEMPERATURE

- 2 6.17 70.27
- 2 6.565 71.09

- 2 6.891 71.27
- 2 6.891 73.87
- 2 6.565 75.88
- 2 6.891 76.73
- 2 6.565 76.91
- 2 6.891 78.19
- 2 6.891 78.38
- 2 6.891 78.69
- 2 6.565 79.45

STORE_ID UNEMPLOYMENT TEMPERATURE

- 2 6.565 80.17
- 2 6.891 80.56
- 2 6.891 81.04
- 2 6.565 82.64
- 2 6.565 83.23
- 2 6.565 84.2
- 2 6.565 84.79
- 2 6.891 86.32
- 2 6.565 86.37
- 2 6.565 87.65
- 2 6.565 88.55

STORE_ID UNEMPLOYMENT TEMPERATURE

2 6.565 90.22

56 rows selected.