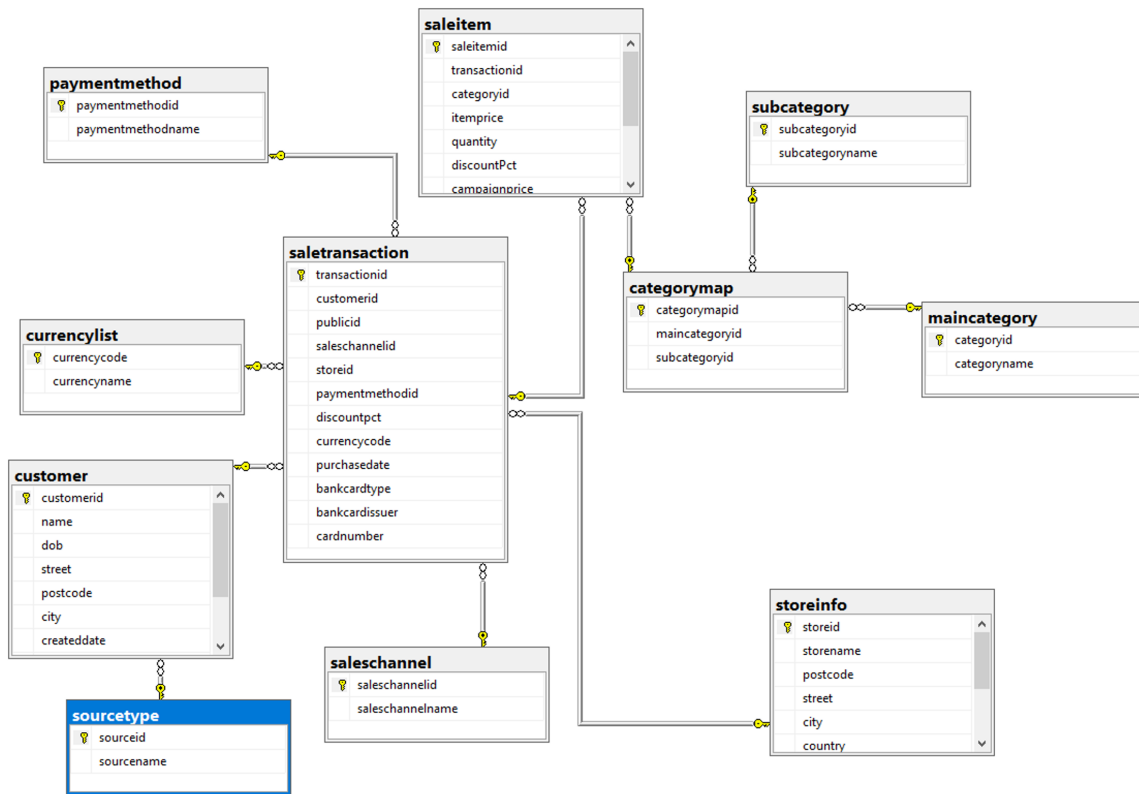


Exercise for SQL – IIM BDA

Study the following ER model and answer the questions given below:



Q1) Review the above ER model and describe relationships between tables. Please also identify what are foreign and primary keys in each table.

Q2) You already have been provided the scripts for creating this database. Please write SQL to extract following reports.

Note: Popularity can be on the basis of total sale or number of shoes sold. Make your choice.

- Generate a report about which main categories and sub-categories of shoes are most popular in each country?
- Find out which payment method is the most popular in each country?
- Is total sale more online or instore?
- Which country is leading sales online?
- What are top 5 stores that are selling the most?

- f) Who are Top 10 customers across all countries who gave the best business with respect total sale?
- g) What is total sale per shoe size across all stores?
- h) What is total sale per shoe size in different countries?
- i) Generate a report for total sales per month in each country.

Hint: Following query will generate report of total sale across all countries per month.

```
select extract(month from purchasedate) || '-' || extract(year from purchasedate) MonthOfSale,
sum(itm.totalprice) totalsale
from saletransaction st, saleitem itm
where st.transactionid = itm.transactionid
group by extract(month from purchasedate) || '-' || extract(year from purchasedate)
```

Bonus Question (Optional)

Q3) Write SQL and Create a view which presents a tabular report showing total sale each country per country. The report should present something like the following:

Country	2019	2020
DK	XXXXX	XX
S	XXX	XXX
N	XXX	XXXX
FIN	XX	XXX

Submission Note:

No submission required. This exercise is for self practice only.