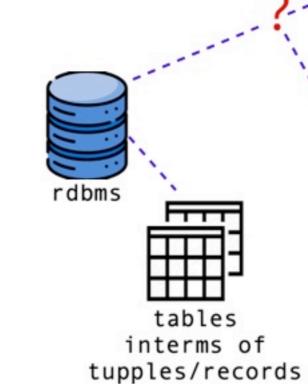


access the data from rdbms database and perform business operation on that data

so inorder to access the data interms of objects



#30000 250000 - coverting record to object and vice versa 5000 = business logic

within our java program
upon accessing the data from RDBMS database interms
of resultset of records, we need to convert into
objects so that it can be used as an input
to perform business logic

objects

business

logic

We need to use java jdbc api to access the data from RDBMS. Always JDBC api allows us to access the data from RDBMS database interms of ResultSet of records of data only.

Which means JDBC Api let us access the data from RDBMS database in relational format only. but we want java programs to access the data interms of objects, we dont want to access the data in underlying source system format.

```
class Sale {
                               int sno;
class CustomerSale {
                               Date saleDate;
 int cid; /
                               int quantity;
  String customerName;
                               double amount;
  String mobile;
                               // accessors
  String emailAddress;
  String gender;
                              class CustomerSale {
  int, sno;
  Date salèDate;
                               int cno;
  int quantity;
                                String customerName;
 /double amount
                               String mobileno;
                               String emailAddress;
                               String gender;
                               List<Sale> sales;
                                // accessors
```

| [customer]       |             |            |                    |         |
|------------------|-------------|------------|--------------------|---------|
| customer_no (pk) | customer_nm | mobile_nbr | email_address      | gender  |
| c1               | anderson    | 9383844    | anderson@gmail.com | male    |
| ic2              | peter       | 93848494   | peter@yahoo.com    | male    |
| ic3              | julie       | 3938494    | joseph@live.com    | female_ |

| sales    |            |          |        |                  |
|----------|------------|----------|--------|------------------|
| sale no  | sale dt    | quantity | amount | customer_no (fk) |
| s1       | 2024-05-22 | 10       | 3500   | c1               |
| s2<br>s3 | 2024-05-22 | 5        | 500    | c2               |
| is3      | 2024-05-22 | 7        | 1500   | c3               |
| s4       | 2024-05-21 | 13       | 800    | c1               |
| s5<br>s6 | 2024-05-23 | 9        | 900    | c2               |
| is6      | 2024-05-19 | 11       | 1200   | c1 .             |

select c.\*, s.\* from customer c inner join sales s on c.customer\_no = s.customer\_no
where c.gender like ?

| c1 | anderson | 9383844  | anderson@gmail.com | male | s1 |
|----|----------|----------|--------------------|------|----|
| c1 | anderson | 9383844  | anderson@gmail.com | male | s4 |
| c1 | anderson | 9383844  | anderson@gmail.com | male | s6 |
| c2 | peter    | 93848494 | peter@yahoo.com    | male | s2 |
| c2 | peter    | 93848494 | peter@yahoo.com    | male | s5 |