

Subject: Big Data Analytics

Semester: 7

ID: 20CEUOS101

Roll No: CE097

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Lab: 9

Aim: Delivering Reports including visualization and

customization properties.

Excercise:

1. Using SQLdeveloper create a report which will display university data.

Reports using SQLdeveloper:

Creating tables:

```
create table client_master
  (client_no varchar2(6),
  name varchar2(20),
  addressl varchar2(30),
  address2 varchar2(30),
  city varchar2(15),
  state varchar2(15),
  pincode number(6),
  bal_due number(10,2));
```

```
create table salesman master
     (salesman no varchar2(6) primary key check (salesman no like '5%'),
      sal_name varchar2(20) not null,
      address varchar2(50) not null,
      city varchar2(20),
      state varchar2(20),
      pincode number (6),
      sal amt number (8,2) not null check (sal amt<>0),
      tgt_to_get number(6,2) not null check(tgt_to_get<>0),
      ytd sales number(6,2) not null check(ytd sales <> 0),
      remarks varchar2(30));
   create table product master
       (product no varchar2(20),
       description varchar2(20),
       profit percent number,
       unit measure varchar2(20),
       gty on hand number,
       reorder lvl number,
       sell price number,
       cost_price number);
create table sales order
(s_order_no varchar2(6) primary key check(s_order_no like '0%'),
s_order_date date,
client_no varchar2(25) references client_master(client_no),
dely add varchar2(6),
salesman_no varchar2(6) references salesman_master(salesman_no),
dely_type char(1) default 'f' check (dely_type in ('p', 'f')),
billed yn char(1),
dely date date,
order_status varchar2(25) check (order_status in ('inprocess', 'fullfilled', 'backorder', 'cancelled')),
check (dely_date>=s_order_date)
);
```

```
create table sales_order_details
(s_order_no varchar2(6) references sales_order(s_order_no),
    product_no varchar2(6) references product_master(product_no),
    qty_order number(8),
    qty_disp number(8),
    product_rate number(10,2),
    primary key(s_order_no, product_no)

);
```

Table Data:

	\$ CLIENT_NO	♦ NAME			⊕ CITY	♦ STATE	₱INCODE	⊕ BAL_DUE
1	0006	Rukmini	(null)	(null)	Bombay	Maharashtra	400050	C
2	0002	Vandana	(null)	(null)	Madras	Tamilnadu	780001	0
3	0003	Pramada	(null)	(null)	Bombay	Maharashtra	400057	5000
4	0004	Basu	(null)	(null)	Bombay	Maharashtra	400056	0
5	0005	Ravi	(null)	(null)	Delhi	Gujarat	100001	2000
6	0001	Ivan	(null)	(null)	Bombay	Maharashtra	400054	15000

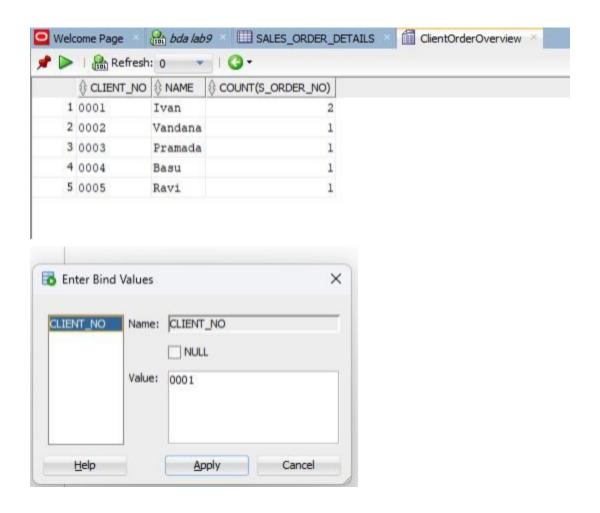
	⊕ PRODUCT_NO		PROFIT_PERCENT			REORDER_LVL	\$ SELL_PRICE	♦ COST_PRICE
1	P00001	1.44floppies	5	piece	100	20	525	500
2	P03453	Monitors	6	piece	10	3	12000	11200
3	P06734	Mouse	5	piece	20	5	1050	500
4	P07865	1.22floppies	5	piece	100	20	525	500
5	P07868	Keyboards	2	piece	10	3	3150	3050
6	P07885	CD Drive	2.5	piece	10	3	5250	5100
7	P07965	540 HDD	4	piece	10	3	8400	8000
8	P07975	1.44 Drive	5	piece	10	3	1050	1000
9	P08865	1.22 Drive	5	piece	2	3	1050	1000

	SALESMAN_NO	SAL_NAME		CITY	♦ STATE	₱ PINCODE	SAL_AMT	↑ TGT_TO_GET		REMARKS
1	500001	Kiran	A/14 worli	Bombay	Maharastra	400002	3000	100	50	Good
2	500002	Manish	65, nariman	Bombay	Maharastra	400001	3000	200	100	Good
3	500003	Ravi	P-7 Bandra'	Bombay	Maharastra	400032	3000	200	100	Good
4	500004	Ashish	A/5 Juhu	Bombay	Maharastra	400044	3500	200	150	Good

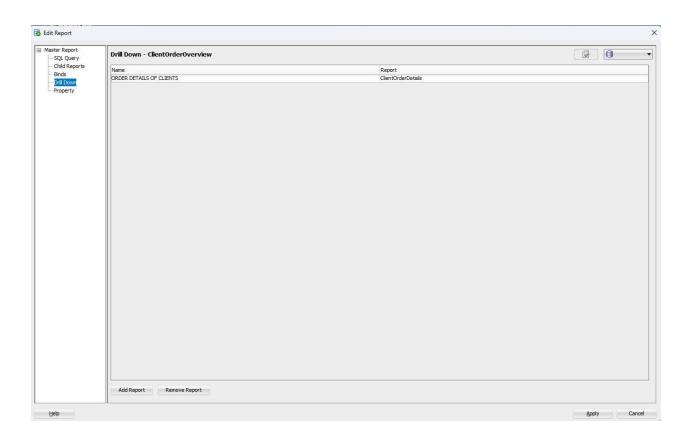
	\$ S_ORDER_NO	\$ S_ORDER_DATE		DELY_ADD	\$ SALESMAN_NO	DELY_TYPE	♦ BILLED_YN	DELY_DATE	ORDER_STATUS
1	019001	12-01-96	0001	(null)	500001	f	N	20-01-96	backorder
2	019002	25-01-96	0002	(null)	500002	p	N	27-01-96	fullfilled
3	016865	18-02-96	0003	(null)	500003	f	Y	20-02-96	fullfilled
4	019003	03-04-96	0001	(null)	500001	f	Y	07-04-96	fullfilled
5	046866	20-05-96	0004	(null)	500004	p	N	22-05-96	cancelled
6	010008	24-05-96	0005	(null)	500004	f	N	26-05-96	backorder

	\$ S_ORDER_NO	₱RODUCT_NO		QTY_DISP	PRODUCT_RATE
1	019001	P00001	4	4	525
2	019001	P07965	2	1	8400
3	019001	P07885	2	1	5250
4	019002	P00001	10	0	525
5	019003	P00001	4	4	1050
6	019003	P03453	2	2	1050
7	046866	P06734	1	1	12000
8	046866	P07965	1	0	8400
9	010008	P07975	1	0	1050
10	010008	P00001	10	5	525

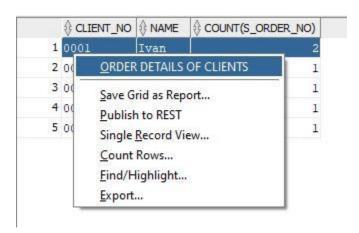
Generating user defined reports:

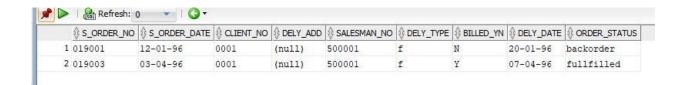




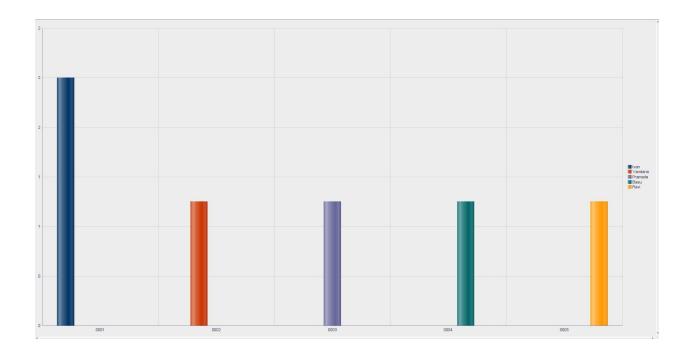


Drill Down using Sub Reports:





Bar Graph Report:



2.Using Jaspersoft, generate a report from mongodb database collections. Use aggregate queries of mongodb to generate the report.

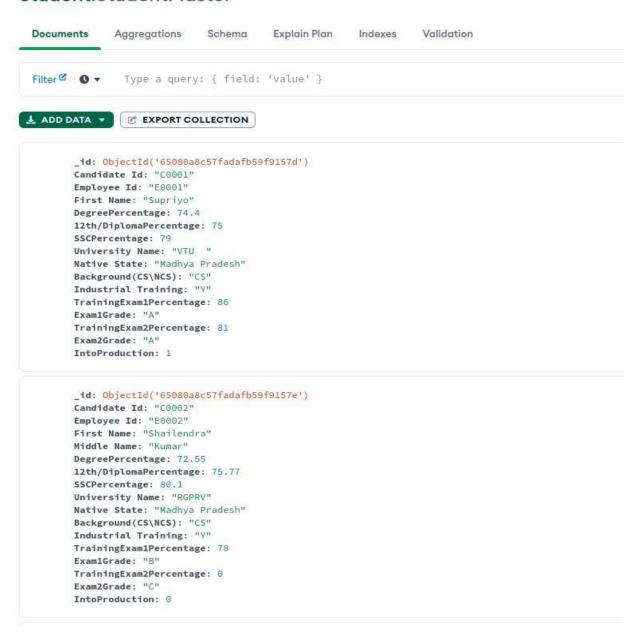
Report using Sample Data:

		CARL ST. A. S.
ID	NAME	COST
0	Iron Iron	5.4000000000000000000000
1	Chair Shoe	24.800000000000000000000
2	Telephone Clock	24.800000000000000000000
3	Chair Chair	25.400000000000000000000
4	Ice Tea Shoe	12.8000000000000000000000
5	Clock Clock	23.600000000000000000000
6	Ice Tea Chair	9.800000000000000000000
7	Telephone Shoe	8.400000000000000000000
8	Ice Tea Clock	22.600000000000000000000
9	Clock Telephone	17.200000000000000000000
10	Telephone Ice Tea	20.400000000000000000000
11	Telephone Iron	8.800000000000000000000
12	Clock Ice Tea	16.800000000000000000000
13	Telephone Clock	18.000000000000000000000000000000000000
14	Telephone Iron	12.400000000000000000000
15	Ice Tea Chair	9.400000000000000000000
16	Ice Tea Shoe	19.400000000000000000000
17	Clock Ice Tea	22.000000000000000000000
18	Chair Clock	17.200000000000000000000
19	Ice Tea Ice Tea	11.000000000000000000000000000000000000
20	Ice Tea Telephone	20.000000000000000000000000000000000000
21	Chair Chair	11.400000000000000000000
22	Iron Iron	6.600000000000000000000
23	Shoe Chair	7.600000000000000000000
24	Chair Shoe	7.2000000000000000000000
25	Shoe Shoe	16.200000000000000000000
26	Shoe Shoe	25.200000000000000000000
۷1	releptione from	23.000000000000000000000
28	Clock Iron	3.0000000000000000000000000000000000000
29	Chair Telephone	11.200000000000000000000000000000000000
30	Shoe Iron	23.200000000000000000000
31	Ice Tea Telephone	4.8000000000000000000000
32	Clock Iron	19.000000000000000000000
33	Iron Chair	18.2000000000000000000000
34	Chair Iron	25.600000000000000000000
35	Telephone Shoe	7.6000000000000000000000
36	Ice Tea Iron	3.20000000000000000000000
37	Clock Shoe	9.4000000000000000000000
38	Clock Ice Tea	21.6000000000000000000000000000000000000

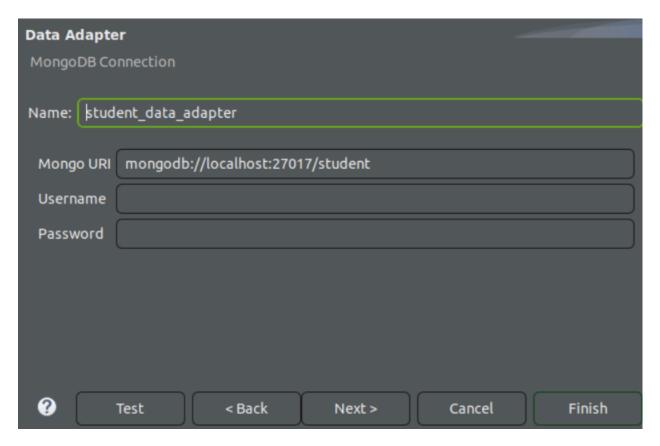
Generating Report for Source Data.csv file:

Loading the data into mongoDB compass

Student.StudentMaster



Creating a new Data Adapter:



```
Data Source
Select a Data Source and design the query.

{

'collectionName': 'studentData',
'findQuery': {

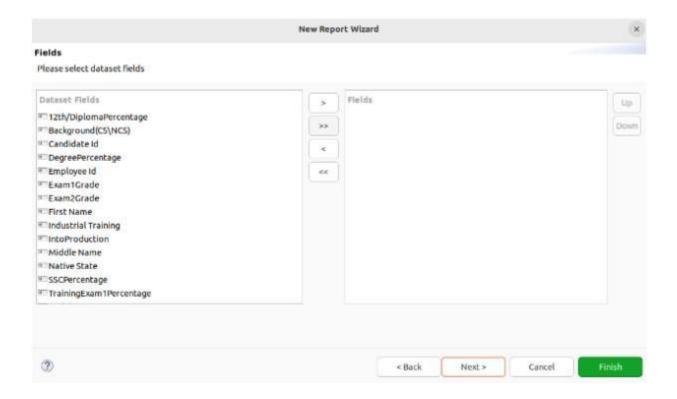
'TrainingExam1Perccentage': {'$ne':''},
'TrainingExam2Perccentage': {'$ne':''},
}
}
```

Query used:

```
{
    'collectionName':'studentData',
    'findQuery' : {

        'TrainingExam1Percentage':{'$ne':"},
        'TrainingExam2Percentage':{'$ne':"},
     }
}
```

Selecting Fields to be displayed in the report :



Report Generated:

