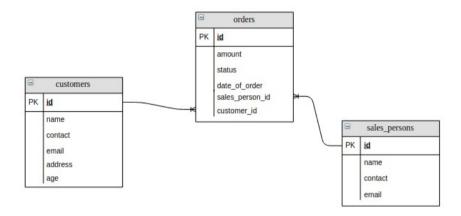
## **Exercise**

Problem Statement: There can be multiple customers, who can place multiple orders on the site. Now a sales person can handle these orders will distribute into multiple sales persons (One order will be assign to one salesperson only). So a sales person can have multiple orders of multiple customers

## 1. Create Database

```
mysql> create database ekart;
Query OK, 1 row affected (0.01 sec)
```

## 2. Design Schema



## 3. Create tables

```
mysql> create table customers(id int primary key auto_increment,name varchar(50)
,email varchar(100),address varchar(200),contact bigint(10),age int(3));
Query OK, 0 rows affected (0.36 sec)

mysql> create table sales_person(id int primary key auto_increment,name varchar(50),email varchar(100),contact bigint(10));
Query OK, 0 rows affected (0.37 sec)

mysql> create table orders(id int primary key auto_increment,amount double(10,2)
,status enum('deliverd','out_for_delivery','created'),date_of_order date,sales_p
erson int references sales_person(id),customer_id int references customers(id));
Query OK, 0 rows affected (0.40 sec)
```

4. Insert sample data

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```
mysql> insert into customers values(2, 'Mella Clougher', 'mclougher1@google.es',
 '81 Marquette Place', 8378579628, 39)
      -> ,(3, 'Chaim Melbourn', 'cmelbourn2@microsoft.com', '1 Hermina Trail', 998
9685515, 20)
     -> ,(4, 'Winifred Donaghy', 'wdonaghy3@artisteer.com', '3266 Glacier Hill Pl
aza', 9771817464, 47)
     -> ,(5, 'Rinaldo Millar', 'rmillar4@yale.edu', '612 Oxford Court', 960524548
-> ,(6, 'Lori Kershaw', 'lkershaw5@bandcamp.com', '4368 Towne Street', 79125
-> ,(7, 'Lauri Alebrooke', 'lalebrooke6@t.co', '67 Ridgeway Plaza', 84913828
46, 44)
     -> ,(8, 'Teriann Lewisham', 'tlewisham7@barnesandnoble.com', '8655 Surrey Ro
ad', 8608216942, 38)
     -> ,(9, 'Ruthi Brehaut', 'rbrehaut8@cnet.com', '24 Lakeland Drive', 84132256
84, 47)
      -> ,(10, 'Sampson Strathe', 'sstrathe9@tripod.com', '5837 David Avenue', 968
0573422, 48);
Query OK, 9 rows affected (0.07 sec)
Records: 9 Duplicates: 0 Warnings: 0
nysql> insert into sales_person (id, name, email, contact) values (1, 'Henrieta
Flukes', 'hflukes0@reverbnation.com', 9106156009),(2, 'Maureene Jarrett', 'mjarr
ett1@jigsy.com', 8954682263),(3, 'Dalt Simic', 'dsimic2@opensource.org', 9292339
B11),(4, 'Niels Salan', 'nsalan3@hexun.com', 7845416228),(5, 'Geoff O''Henecan',
'gohenecan4@privacy.gov.au', 8070199330),(6, 'Margret Chaney', 'mchaney5@nsw.go
/.au', 8489909532),(7, 'Cornall Denerley', 'cdenerley6@sun.com', 9193317027),(8,
'Homer Garlick', 'hgarlick7@friendfeed.com', 7779625884),(9, 'Patrizius Vivyan'
  'pvivyan8@plala.or.jp', 9377970127),(10, 'Devon Moye', 'dmoye9@eepurl.com', 86
58423329);
Query OK, 10 rows affected (0.09 sec)
Records: 10 Duplicates: 0 Warnings: 0
mysql> insert into orders (id, amount, status, date_of_order, sales_person_id, c
ustomer_id) values (1, 7270.97, 'deliverd', '2019-01-27', 4, 9),(2, 5390.1, 'cre ated', '2019-01-15', 6, 7),(3, 8713.81, 'out_for_delivery', '2018-11-05', 8, 4),
(4, 6457.36, 'out_for_delivery', '2018-08-10', 4, 1),(5, 6062.71, 'created', '20
18-07-13', 4, 9),(6, 6731.97, 'out_for_delivery', '2018-09-30', 2, 1),(7, 5874.0
9, 'out_for_delivery', '2018-08-01', 10, 6),(8, 5295.2, 'out_for_delivery', '201
8-03-23', 3, 9),(9, 9810.38, 'deliverd', '2018-05-12', 9, 7),(10, 7766.57, 'deliverd', '2018-02-15', 9, 2);
Query OK, 10 rows affected (0.08 sec)
```

5. Find the sales person have multiple orders.

Records: 10 Duplicates: 0 Warnings: 0

```
mysql> select count(o.id) no_of_orders,sp.name from orders o join sales_person s
p on sp.id=o.sales_person_id group by o.sales person id having count(o.id)>1;
| no_of_orders | name
             3 | Niels Salan
             2 | Patrizius Vivyan |
2 rows in set (0.00 sec)
```

6. Find the all sales person details along with order details

7. Create index

```
mysql> alter table customers add index email_index(email)
-> ;
Query OK, 0 rows affected (0.40 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

8. How to show index on a table

9. Find the order number, sale person name, along with the customer to whom that order belongs to