Assignment 3 (Intro to Database)

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

Screenshot

```
mysql> CREATE DATABASE Assignment
->;
Query OK, 1 row affected (0.00 sec)
```

2. Design Schema

```
nysql> show tables;
 Tables_in_Assignment |
 customer
 orders
 sales
 rows in set (0.00 sec)
nysql> desc customer;
 Field | Type
                       | Null | Key | Default | Extra
 cust_id | int(5)
                       NO
                             | PRI | NULL
                                               auto_increment
         | varchar(10) | NO
| varchar(10) | NO
 Name
                                     NULL
 phone
                                     NULL
 rows in set (0.01 sec)
ysql> desc orders;
 Field
                        | Null | Key | Default | Extra
           Type
           orders_id | int(5)
                                               | auto increment
 Price
                         | YES | MUL | NULL
| YES | MUL | NULL
 cust id
           | int(11)
 sales_id | int(11)
 rows in set (0.00 sec)
nysql> desc sales;
 Field
                 Туре
                               | Null | Key | Default | Extra
 sales id
                 | int(5)
                                       PRI | NULL
                                                       auto increment
 SalesPersonName | varchar(10) |
                                NO
                                             NULL
```

3. Create tables

Screenshot

```
mysql> create table customer(cust_id int(5) auto_increment Primary Key,Name varchar(10) not null, phone varchar(10) not null);

Query OK, 0 rows affected (0.27 sec)

mysql> create table sales(sales_id int(5) auto_increment Primary Key,SalesPersonName varchar(10) not null);

Query OK, 0 rows affected (0.32 sec)

mysql> create table orders(orders_id int(5) auto_increment Primary Key,Price varchar(10) not null,cust_id int, sales_id int, FOREIGN KEY(cust_id) Refrences customer(cust_id),FOREIGN KEY(sales_id) References sales (sales_id));

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'Refrences customer(cust_id),FOREIGN KEY(sales_id) References sales (sales_id))' at line 1
mysql> mysql> createorders(orders_id int(5) auto_increment Primary Key,Price varchar(10) not null, cust_id int, sales_id int, FOREIGN KEY(cust_id) References customer(cust_id), FOREIGN KEY(sales_id) References sales (sales_id));

Query OK, 0 rows affected (0.40 sec)
```

4. Insert sample data

```
mysql> insert into sales (SalesPersonName) values('Inder');
Query OK, 1 row affected (0.06 sec)

mysql> insert into sales (SalesPersonName) values('Ram');
Query OK, 1 row affected (0.06 sec)

mysql> select * from sales;
+-----+
| sales_id | SalesPersonName |
+-----+
| 1 | Inder |
| 2 | Ram |
```

```
mysql> insert into orders (Price,cust_id,sales_id)    values(120, 1, 1 );
Ouery OK, 1 row affected (0.05 sec)
mysql> insert into orders (Price,cust_id,sales_id) values(200, 1, 2 );
Query OK, 1 row affected (0.06 sec)
mysql> insert into orders (Price,cust_id,sales_id)    values(500, 1, 1 );
Query OK, 1 row affected (0.04 sec)
mysql> insert into orders (Price,cust_id,sales_id) values(1000, 2, 2 );
Query OK, 1 row affected (0.06 sec)
mysql> insert into orders (Price,cust_id,sales_id) values(1800, 2, 1 );
Query OK, 1 row affected (0.06 sec)
mysql> select * from orders;
| orders_id | Price | cust_id | sales_id |
         1 | 120 | 1 |
2 | 200 | 1 |
3 | 500 | 1 |
                                     1
                                       2
                                       1
         4 | 1000
                            2 |
         5 | 1800 |
                            2 |
```

5. Find the sales person have multiple orders.

Screenshot

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

7. Create index

Screenshot

```
mysql> create index Name_index on customer(Name);
Query OK, 0 rows affected (0.44 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

8. How to show index on a table

Screenshot

```
nysql> show index from customer;

Table | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Comment |

Index_comment |

Customer | 0 | PRIMARY | 1 | cust_id | A | 2 | NULL | NULL | BTREE |

Customer | 1 | Name_index | 1 | Name | A | 2 | NULL | NULL | BTREE |

Customer | 1 | Name_index | 1 | Name | A | 2 | NULL | NULL | BTREE |

Customer | 1 | Name_index | 1 | Name | A | 2 | NULL | NULL | BTREE |

Customer | 1 | Name_index | 1 | Name | A | 2 | NULL | NULL | BTREE |

Customer | 1 | Name_index | 1 | Name | A | 2 | NULL | NULL | BTREE |

Customer | 1 | Name_index | 1 | Name | A | 2 | NULL | NULL | BTREE |

Customer | 1 | Name_index | 1 | Name | A | 2 | NULL | NULL | BTREE |

Customer | 1 | Name_index | 1 | Name | A | 2 | NULL | NULL | BTREE |

Customer | 1 | Name_index | 1 | Name | A | 2 | NULL | NULL | BTREE |

Customer | 1 | Name_index | 1 | Name | A | 2 | NULL | NULL | BTREE |

Customer | 1 | Name_index | 1 | Name | A | 2 | NULL | NULL | BTREE |

Customer | 1 | Name_index | 1 | Name | A | 2 | NULL | NULL | BTREE |

Customer | 1 | Name_index | 1 | Name | A | 2 | NULL | NULL | BTREE |

Customer | 1 | Name_index | 1 | Name | A | 2 | NULL | NULL | BTREE |

Customer | 1 | Name_index | 1 | Name | A | 2 | NULL | NULL | BTREE |

Customer | 1 | Name_index | 1 | Name | A | 2 | NULL | NULL | BTREE |

Customer | 1 | Name_index | 1 | Name | Name
```

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