



# RM Project

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## group work report

	S.Raneem alzhrani	S.Raghad kabli	S. Moslahah alnadoi	S.Mawaddah adm
Project Name		✓		
Description	✓			
Chen's Notation				✓
UML Notation			✓	
Relational Schema			✓	✓
Normalization	✓	✓		
create		✓		
insert			✓	
update				✓
delete	✓			
select	✓	✓	✓	✓

### Note :

We have made the following adjustments before phase 2

- Modify the description
- Add more attributes in Dress
- Add more attributes in customer
- Add more attribuste in reservation
- modify the relation between reservation and customer
- **Adjustments were made by : mawaddah , moslahah**

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## Description

**A local company for four girls specialized in designing dresses according to the client's desire**

**Why RM?**

**They took the first letter of their names:**

**Raneem,Raghad,Moslahah,Mawaddah**

**The company's system is based on meeting the customer's desires.**

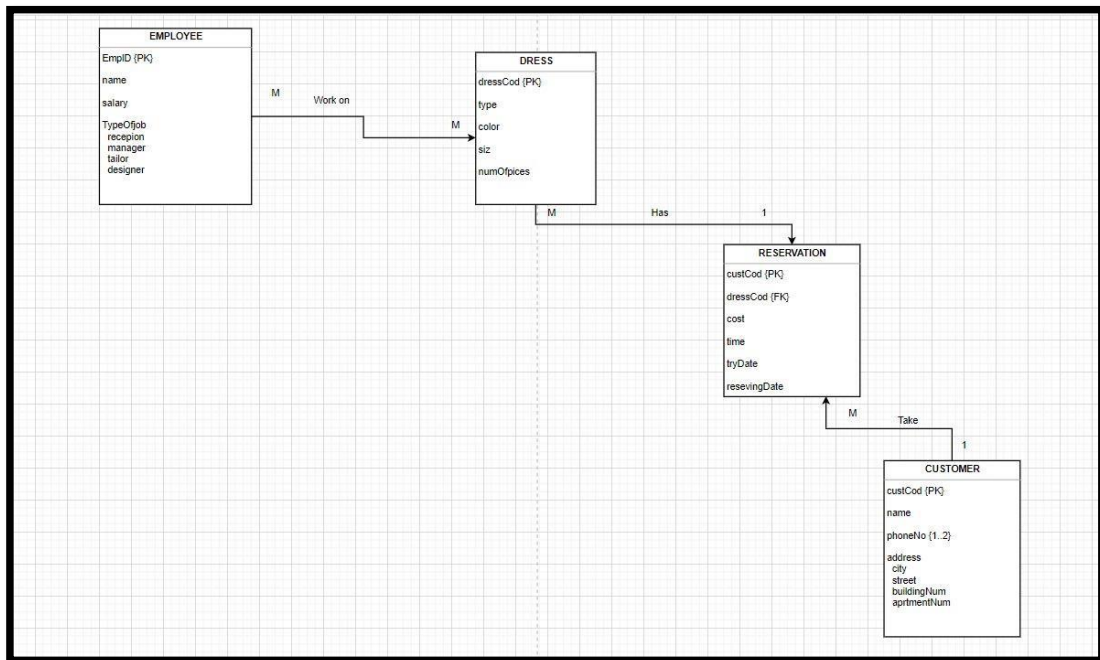
**The customer submits the design to us, or chooses a pre-existing design with modifications**

Each Employee in this has name , salary , Id of employee and type of job(designer-tailor-manger-reception).

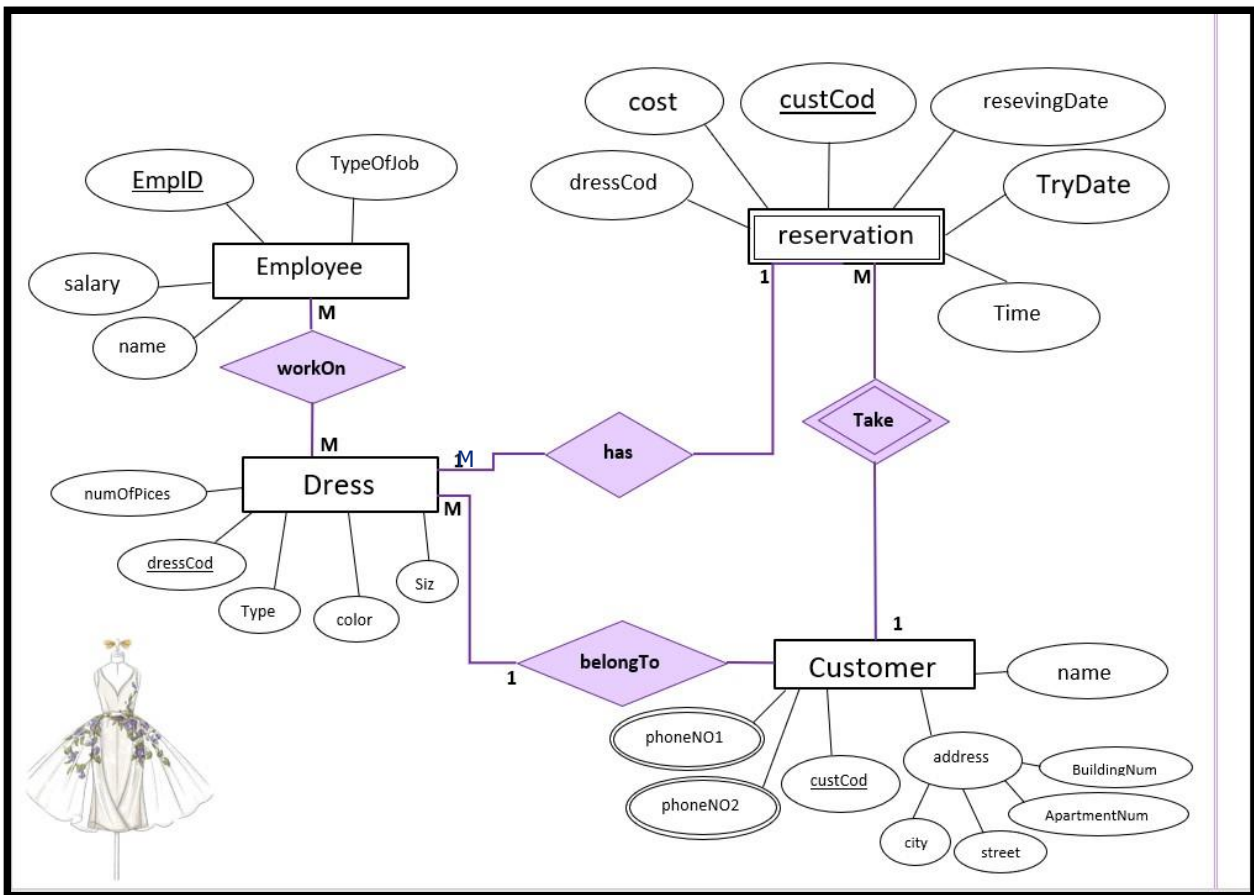
- RM company has Customers, they take some informations from each Customers like : two phone numbers , name and the address then RM company will give a special number for each customer to make it easy to reach
- each dress in this company has a Size , code , type(Formal, marriage), color , and the number of pieces that make up the dress
- after the customer orders the dress, it is registered in the reservation schedule, which consists of: the dress code, customer code, cost, try date, reservation date , and the time the customer comes to the store

THE COMPANY EMPLOYEE RECORDS THE RESERVATION FOR  
THE CUSTOMER TO WHICH THE DRESS BELONGS, THE  
CUSTOMER CAN HAVE MORE THAN ONE RESERVATION, MANY EMPLOYEES  
WORK ON ONE DRESS

# UML Notation



## Chen's Notation



# Relational Schema

## Mapping of Regular Entity Types

### Employee

name	salry	EmpID	Typeofjop
------	-------	-------	-----------

### Dress

size	coler	type	drsscod	numfpices
------	-------	------	---------	-----------

### Customer

name	city	street	apartmentNum	buildingNum	custcod
------	------	--------	--------------	-------------	---------

## Mapping of Weak Entity Types

### Reservatoin

dressCod	cost	custCod	resevingDate	Trydate	time
----------	------	---------	--------------	---------	------

## Map Binary 1:1 Relationship Types

There is no relationship

## Map Binary 1:N Relationship Types

### Dress

size	coler	type	drsscod	numfpices	custcod
------	-------	------	---------	-----------	---------

// in Chen notation there no should be a column called custCod from

// reservation table

### Reservatoin

dressCod	cost	custCod	resevingDate	Trydate	time	Custcod_customer
----------	------	---------	--------------	---------	------	------------------

## Mapping of Binary M:N Relationship Types

### Workon

EmpID	dresscod
-------	----------

## Mapping of Multivalued Attributes

// it's a mistake in Chen Notation to make two attributes for phone number, that's why we're going to fix it to one attribute

### Costomer\_phone

custcod	Phoneno1
---------	----------

# Final relational schema

(FinalRelationalSchem)

Employee	name	Salry	EmpID	Typeofjop
----------	------	-------	-------	-----------

Dress	size	coler	type	drsscod	numfpices
-------	------	-------	------	---------	-----------

Customer	name	city	street	apartmentNum	builidingNum	custcod
----------	------	------	--------	--------------	--------------	---------

Dress	size	coler	type	drsscod	numfpices	custcod
-------	------	-------	------	---------	-----------	---------

Reservatoin	dressCod	cost	custcod	resevingDate	Trydate	time	Custcod_customer
-------------	----------	------	---------	--------------	---------	------	------------------

Workon	EmpID	dresscod
--------	-------	----------

Costomer_phone	custcod	Phoneno1
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# Normalization

0NF (worst case and no normalization):

(EmpID, name, salary, typeOfJop, DrsCod, size, coler, type, numfPices, custcod, name, phoneNO1, phoneNO2, city, street, apartmentNum, buildingNum, reservingDate, cost, trydate, time)

1NF (No Multi-value attributes):

(EmpID, name, salary, typeOfJop, DrsCod, size, coler, type, numfPices, custcod, name, city, street, apartmentNum, buildingNum, reservingDate, cost, trydate, time)

customer\_phone (custcode, phoneNO1, phoneNO2)

2NF (No Partial Dependency):

Employee (EmpID, name, salary, typeOfJop)

Dress (DrsCod, size, coler, type, numfPices)

workOn (EmpID, DrsCod)

Customer (custcod, name, city, street, apartmentNum, buildingNum, reservingDate, cost, trydate, time)

customer\_phone (custcode, phoneNO1, phoneNO2)

3NF (No Transitive Dependency):

Employee (EmpID, name, salary, typeOfJop)

Dress (DrsCod, size, coler, type, numfPices)

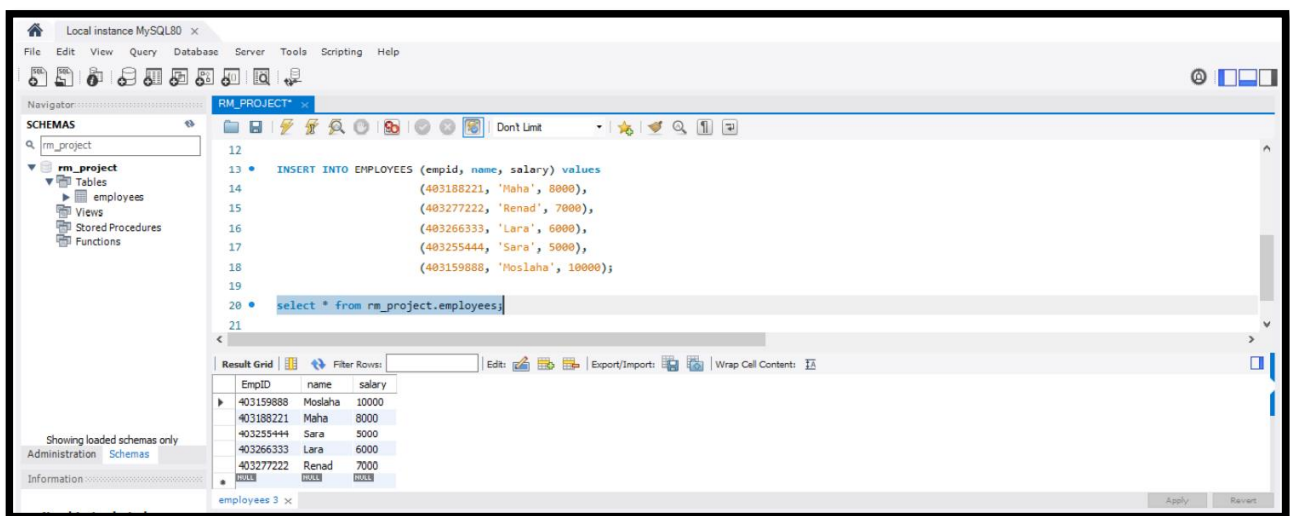
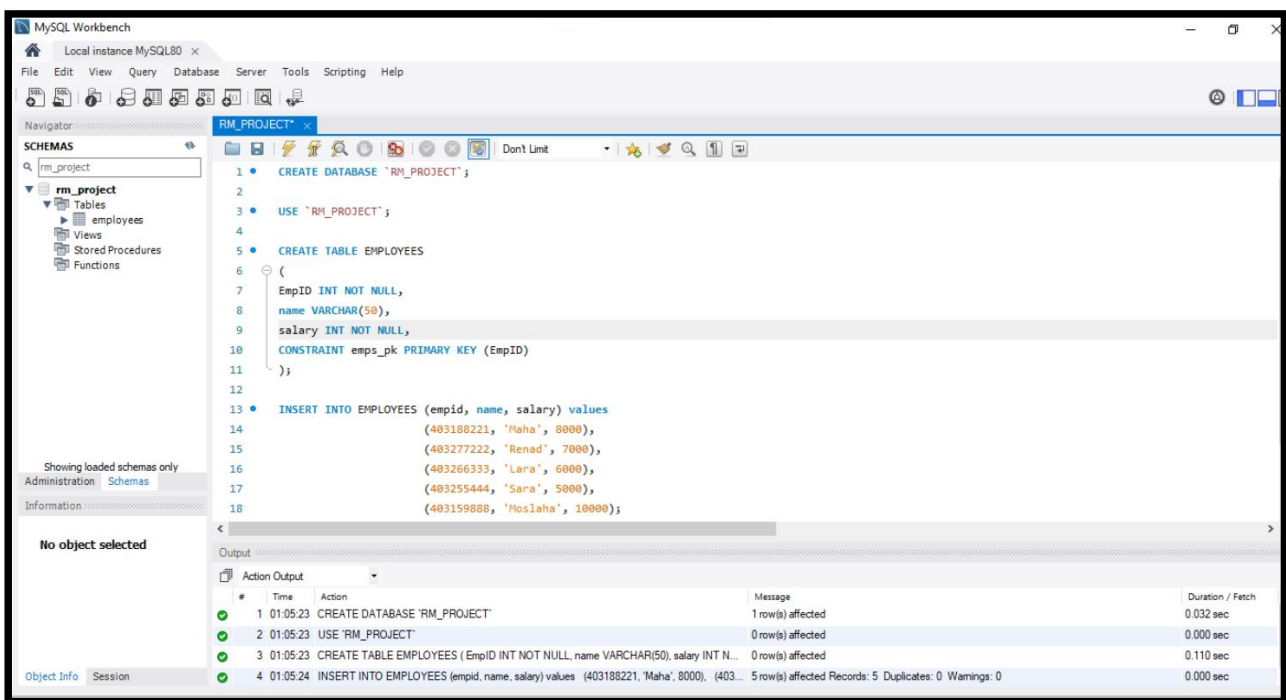
Customer (custcod, name, city, street, apartmentNum, buildingNu)

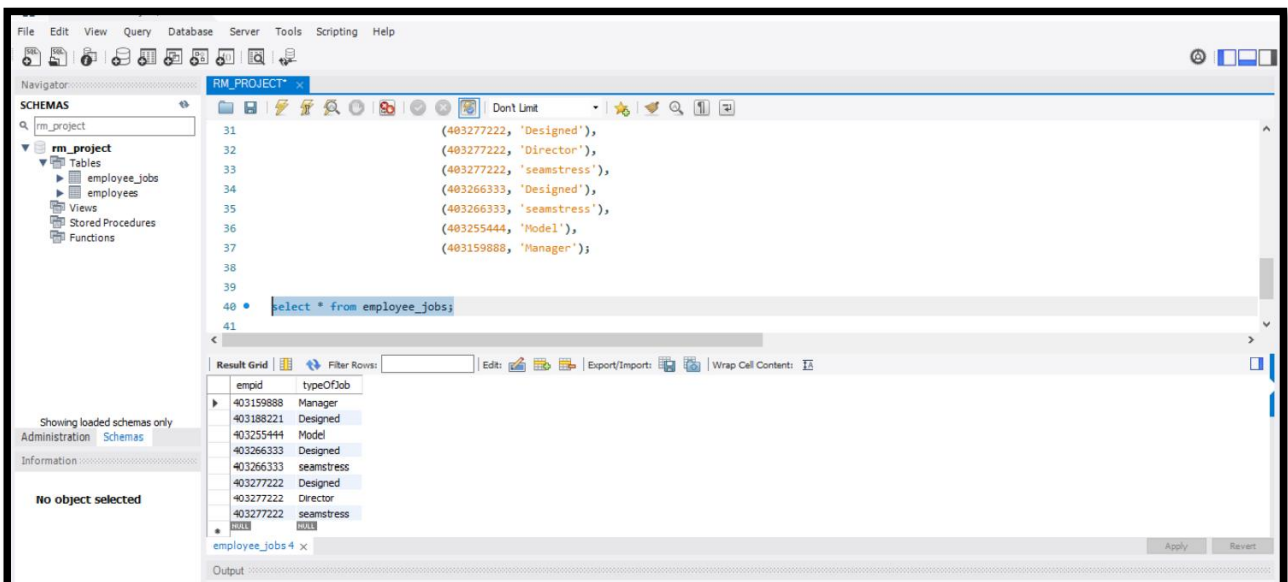
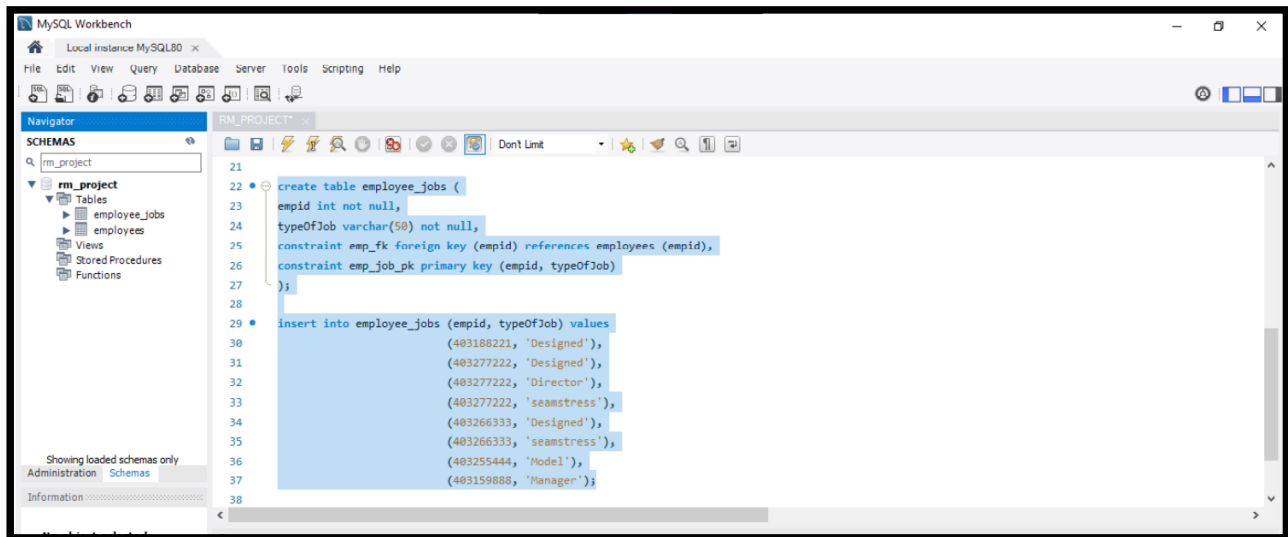
customer\_phone (custcode, phoneNO1, phoneNO2)

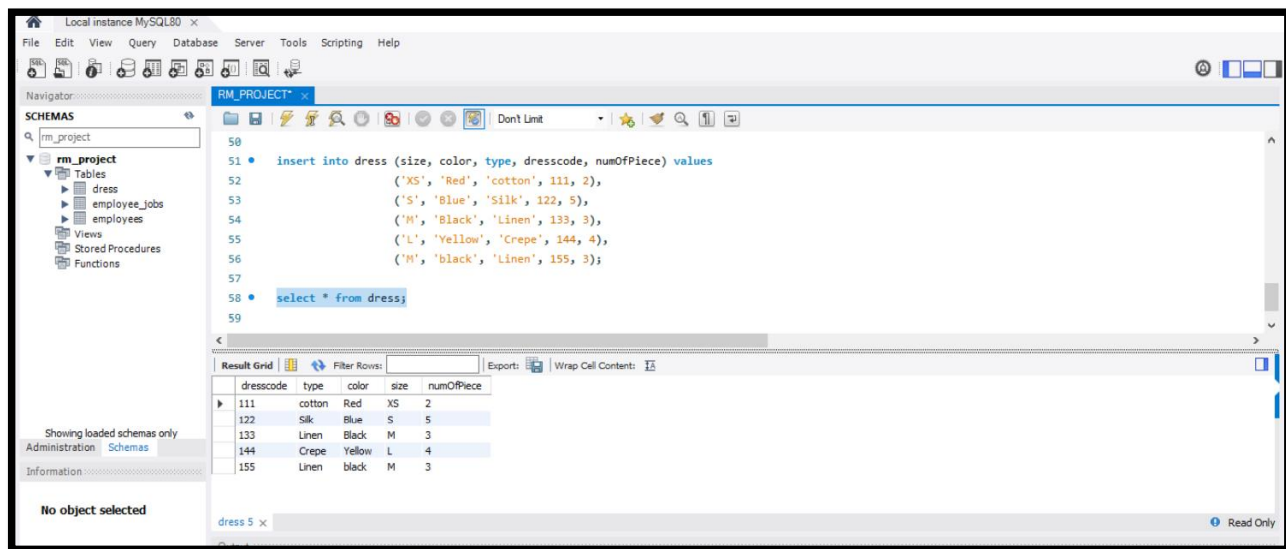
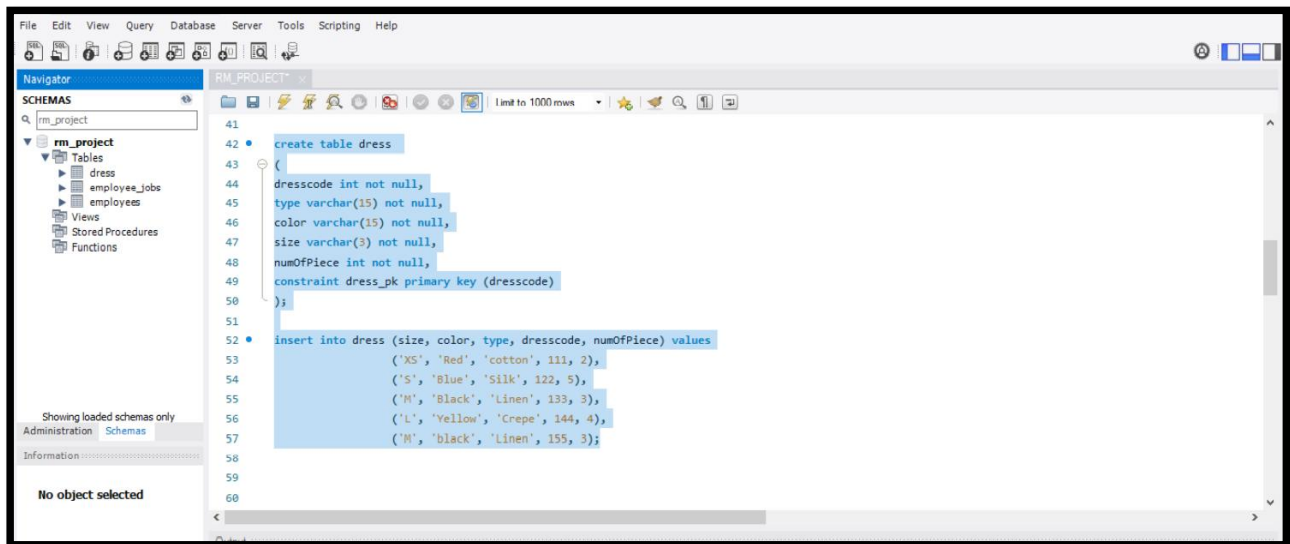
customer\_reservations (custcode, DrsCod, reservingDate, cost, trydate, time)

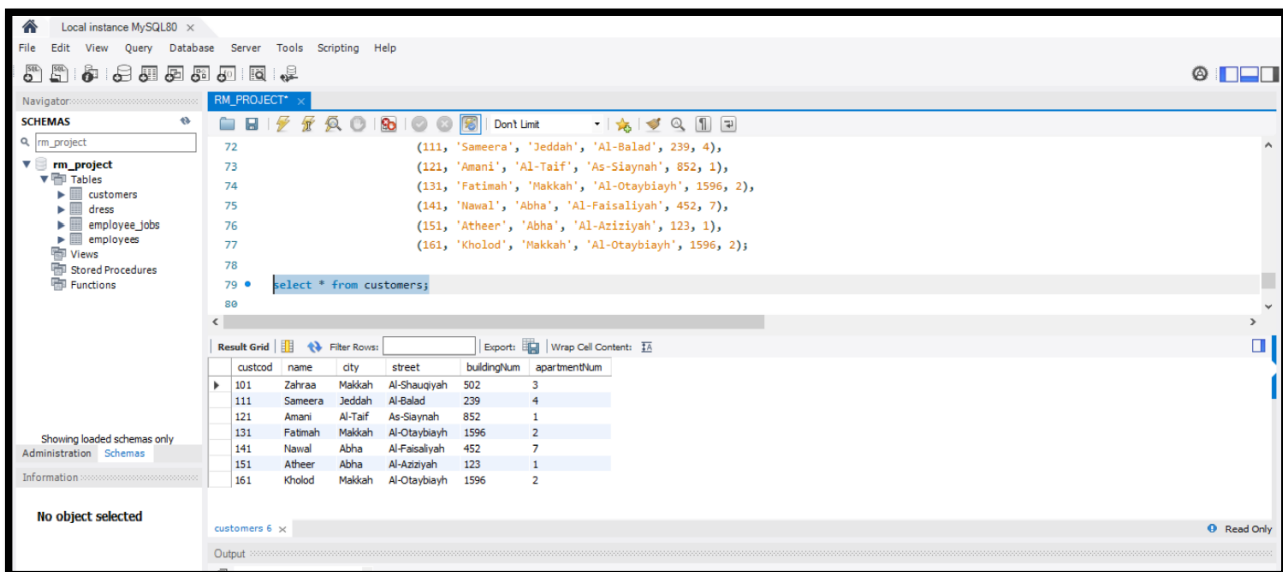
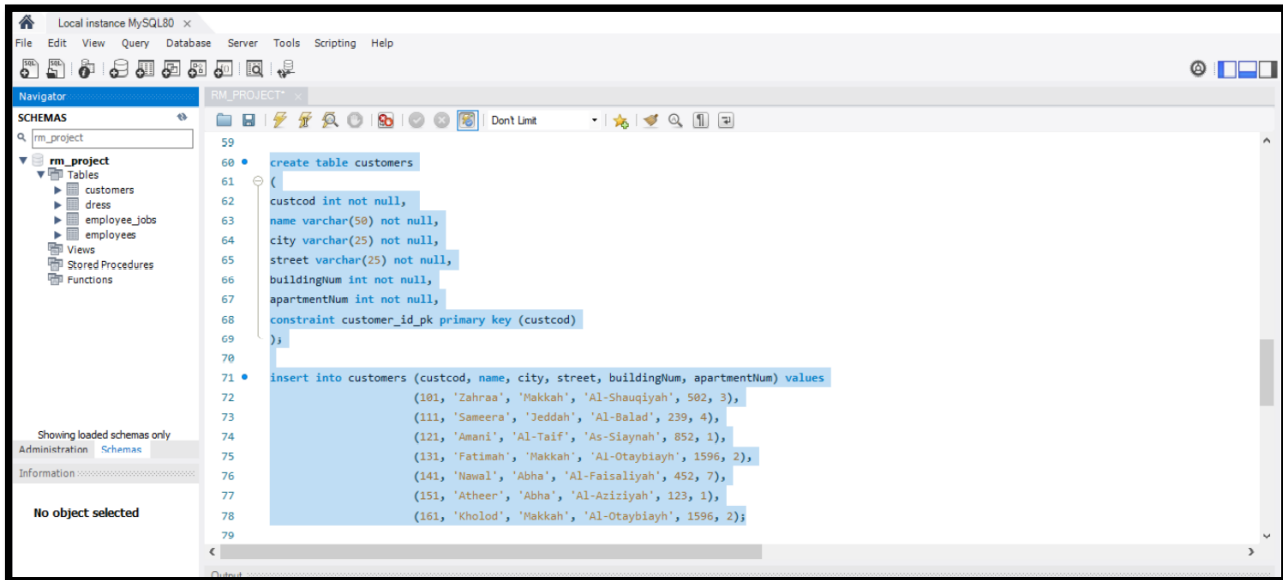


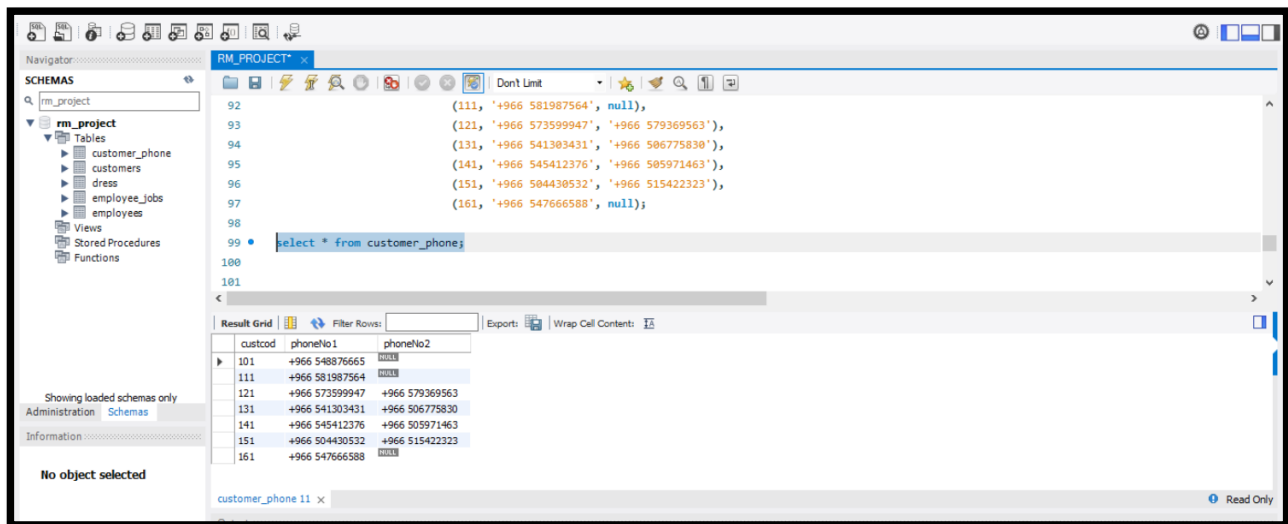
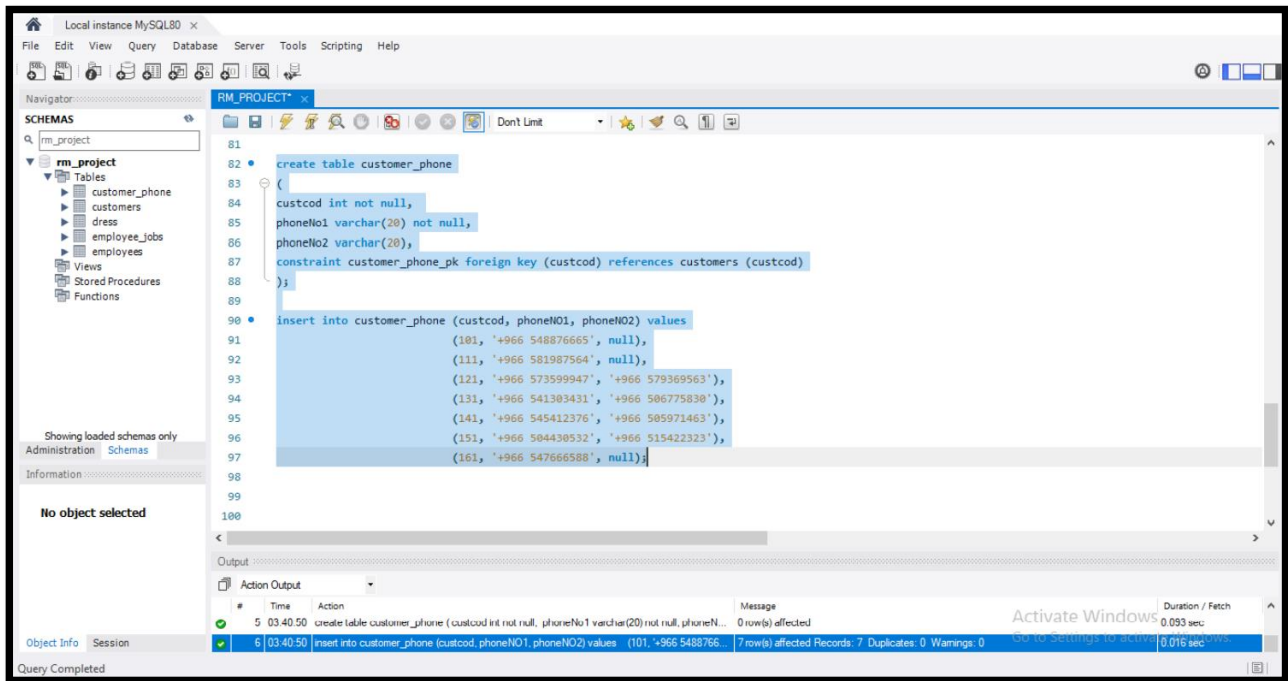
# SQL

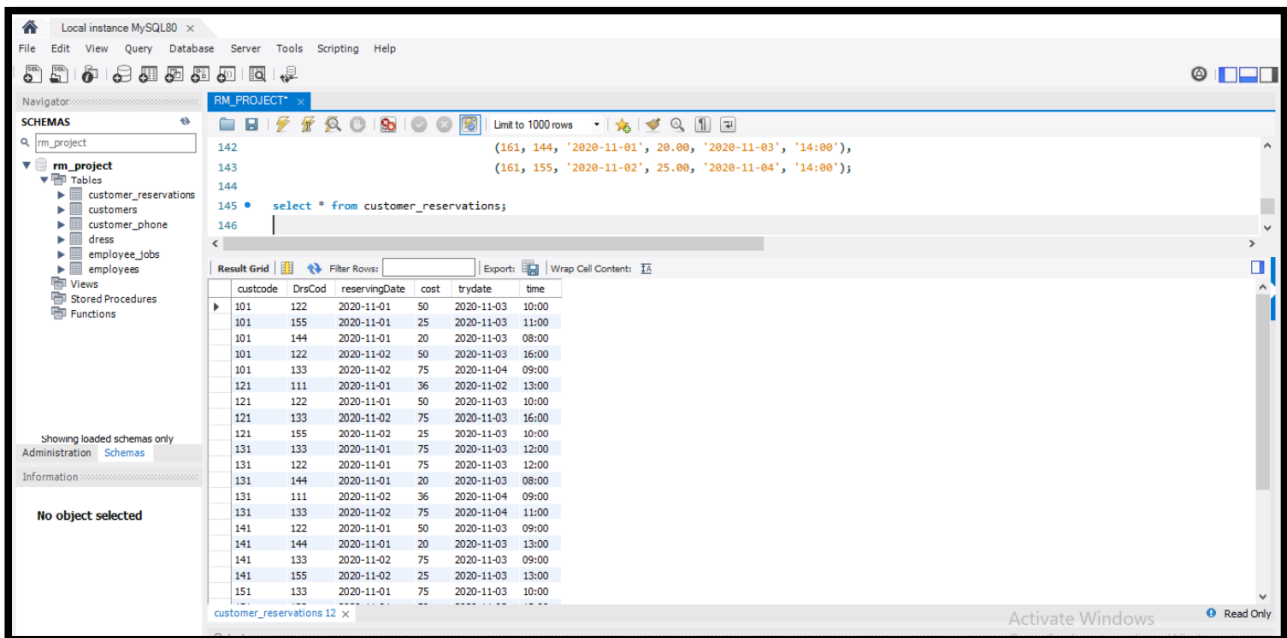
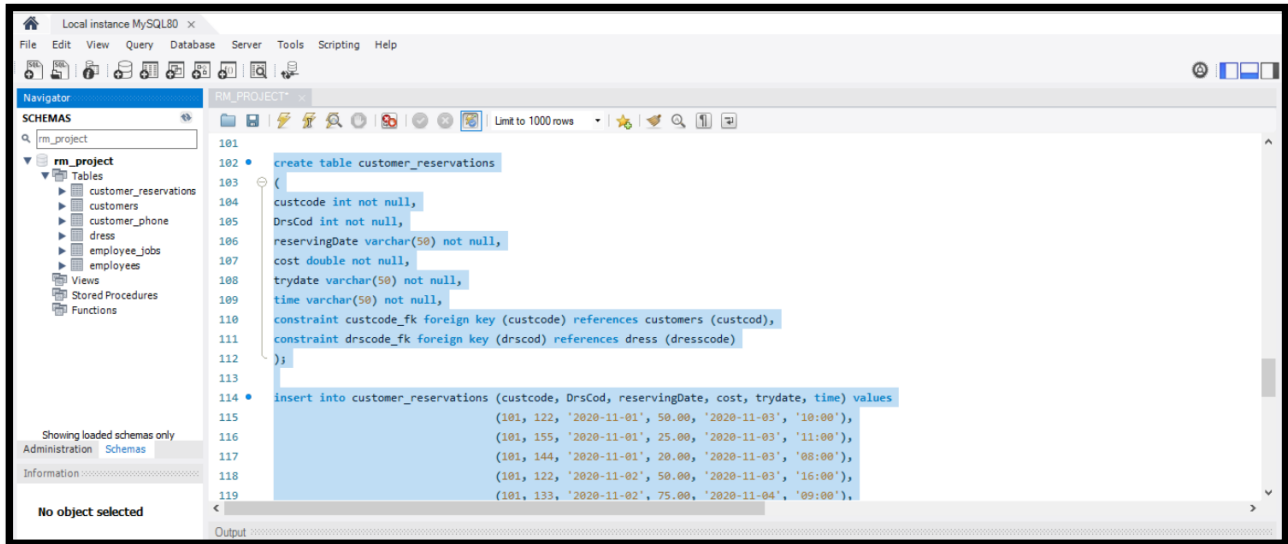












RM\_PROJECT\* x

Limit to 1000 rows

```
150 • update customer_reservations set cost = '100'
151     where custcode = 101 and DrsCod = 133 and reservingDate = '2020-11-02' and trydate = '2020-11-04';
152 • select * from customer_reservations;
153
154 • update customer_phone set phoneN02 = '+966 549343130' where custcod = 101;
155 • select * from customer_phone;
156
157 -- DELETE
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	custcode	DrsCod	reservingDate	cost	trydate	time
▶	101	122	2020-11-02	50	2020-11-03	16:00
	101	133	2020-11-02	100	2020-11-04	09:00
	121	111	2020-11-01	36	2020-11-02	13:00
	121	133	2020-11-02	75	2020-11-03	16:00
	121	155	2020-11-02	25	2020-11-03	10:00
	131	111	2020-11-02	36	2020-11-04	10:30
	131	133	2020-11-02	75	2020-11-04	11:00
	141	133	2020-11-02	75	2020-11-03	09:00
	141	155	2020-11-02	25	2020-11-03	13:00
	---	---	---	---	---	---

Result Grid  
Form Editor

RM\_PROJECT x

Limit to 1000 rows

```

149
150 • update customer_reservations set time = '10:30'
151     where custcode = 131 and DrsCod = 111 and reservingDate = '2020-11-02' and trydate = '2020-11-04';
152 • select * from customer_reservations;
153
154 • update customer_phone set phoneNo2 = '+966 549343130' where custcod = 101;
155 • select * from customer_phone;
156

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	custcod	phoneNo1	phoneNo2
▶	101	+966 548876665	+966 549343130
	111	+966 581987564	NULL
	121	+966 573599947	+966 579369563
	131	+966 541303431	+966 506775830
	141	+966 545412376	+966 505971463
	151	+966 504430532	+966 515422323
	161	+966 547666588	NULL

Result Grid  
Form Editor  
Field Types

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator | RM\_PROJECT\* x

SCHMAS

rm\_project

- customer\_reservations
- customers
- customer\_phone
- dress
- employee\_jobs
- employees
- Views
- Stored Procedures
- Functions

Showing loaded schemas only  
Administration Schemas  
Information

No object selected

employees 22 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
11	05:25:25	delete from employees where empid = 403255444	1 row(s) affected	0.031 sec
12	05:25:32	select * from employees LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec

Query Completed

Activate Windows  
Go to Settings to activate Windows.



MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: RM\_PROJECT x

Limit to 1000 rows

SCHEMAS

rm\_project

Tables

- customer\_phone
- customer\_reservations
- customers
- dress
- employee\_jobs
- employees

Views

Stored Procedures

Functions

Showing loaded schemas only

Administration Schemas

Information

Column: trydate

Collation: utf8mb4\_0900\_ai\_ci

Definition: trydate varchar(50)

Object Info Session

customer\_reservations 3 x

```

157 -- DELETE
158 DELETE FROM EMPLOYEE_JOBS WHERE empid = 403255444 and typeOfJob = 'Model';
159 select * from employee_jobs;
160
161 delete from employees where empid = 403255444;
162 select * from employees;
163
164
165 DELETE FROM customer_reservations WHERE reservingDate = '2020-11-01' AND trydate = '2020-11-03';
166 SELECT * FROM customer_reservations order by reservingDate;
167
168
169

```

Result Grid

	custcode	DrsCod	reservingDate	cost	trydate	time
▶	121	111	2020-11-01	36	2020-11-02	13:00
	101	122	2020-11-02	50	2020-11-03	16:00
	101	133	2020-11-02	75	2020-11-04	09:00
	121	133	2020-11-02	75	2020-11-03	16:00
	121	155	2020-11-02	25	2020-11-03	10:00
	131	111	2020-11-02	36	2020-11-04	10:30
	131	133	2020-11-02	75	2020-11-04	11:00
	141	133	2020-11-02	75	2020-11-03	09:00
	141	155	2020-11-02	25	2020-11-03	13:00
	151	155	2020-11-02	25	2020-11-04	09:00
	151	111	2020-11-02	36	2020-11-04	13:00
	151	144	2020-11-02	20	2020-11-03	14:00

Activate Windows  
Go to Settings to activate Windows.

Read Only

