

Database Project

Project Name: KFC Management System

Section: H

Group number: 03

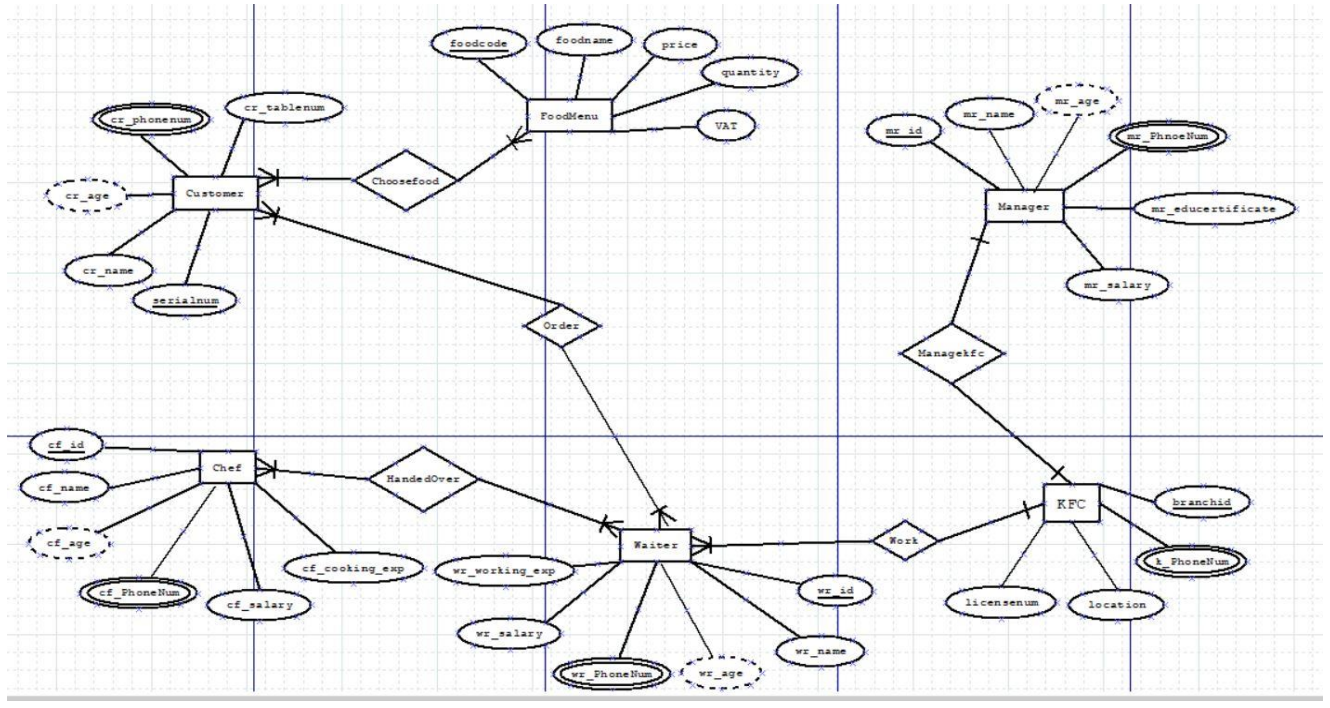
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Case Study

Due to covid 19 pandemic, cities most popular restaurant KFC decided to show food menu on the billboard instead of hard copy where the name of food, food code, price, quantity and vat of foods also written clearly. KFC restaurant is identified by license number, location, branch id, phone number. When customers enter any branch of KFC, there they see a billboard and from there they can choose many meals and order to the waiter. Every waiter can take many orders from many customers and send the list to the right chef. All the chefs prepare all ordered items as fast as they can. Then prepared food taking out by the waiter to the customer. Many customers come to the restaurant at a time. And every customer is identified by their name, age, serial number, table number, phone number. When a person wants to join a KFC restaurant as an employee, he has to submit his necessary documents like his name, age, phone number. In every branch of KFC, there is a manager who looks after the restaurant. But joining as a manager position, he has to extra submit the educational certificate. And in chef and waiter position, has to submit accordingly cooking and working experience certificate in this sector. After joining everyone get their unique id number and salary from the KFC restaurant. And these things can easily record by a database system and we can also modify any information we want. Ultimately it allows us to keep all the information of any restaurant.

ER Diagram



Normalization

Choosefood (serialnum, cr_name, cr_age, cr_phonenum, cr_tablenum, foodcode, foodname, price, quantity, vat)

1NF:

cr_phonenum is a multivalued attribute.

2NF:

serialnum, cr_name, cr_age, cr_phonenum, cr_tablenum

foodcode, foodname, price, quantity, vat

fdsr, serialnum, foodcode

3NF:

serialnum, cr_name, cr_age, cr_phonenum, cr_tablenum

foodcode, foodname, price, quantity, vat

fdsr, serialnum, foodcode

No transitive dependency

Table:

serialnum, cr_name, cr_age, cr_phonenum, cr_tablenum

foodcode, foodname, price, quantity, vat

fdsr, serialnum, foodcode

Order (serialnum, cr_name, cr_age, cr_phonenum, cr_tablenum, wr_id, wr_name, wr_age, wr_phonenum, wr_salary, wr_working_exp)

1NF:

cr_phonenum, wr_phonenum are multivalued attribute

2NF:

serialnum, cr_name, cr_age, cr_phonenum, cr_tablenum

wr_id, wr_name, wr_age, wr_phonenum, wr_salary, wr_working_exp

sw_id, serialnum, wr_id

3NF:

serialnum, cr_name, cr_age, cr_phonenum, cr_tablenum

wr_id, wr_name, wr_age, wr_phonenum, wr_salary, wr_working_exp

sw_id, serialnum, wr_id

No transitive dependency

Table:

serialnum, **cr_name**, **cr_age**, **cr_phonenum**, **cr_tablenum**

wr_id, **wr_name**, **wr_age**, **wr_phonenum**, **wr_salary**,
wr_working_exp

sw_id, **serialnum**, **wr_id**

Handover (wr_id, wr_name, wr_age, wr_phonenum, wr_salary, wr_working_exp, cf_id, cf_name, cf_age, cf_phonenum, cf_salary, cf_cooking_exp)

1NF:

wr_phonenum, cf_phonenum are multivalued attribute

2NF:

wr_id, wr_name, wr_age, wr_phonenum, wr_salary, wr_working_exp
cf_id, cf_name, cf_age, cf_phonenum, cf_salary, cf_cooking_exp
wc_id, wr_id, cf_id

3NF:

wr_id, wr_name, wr_age, wr_phonenum, wr_salary, wr_working_exp
cf_id, cf_name, cf_age, cf_phonenum, cf_salary, cf_cooking_exp
wc_id, wr_id, cf_id

No transitive dependency

Table:

wr_id, wr_name, wr_age, wr_phonenum, wr_salary,
wr_working_exp

cf_id, cf_name, cf_age, cf_phonenum, cf_salary, cf_cooking_exp

wc_id, wr_id, cf_id

Work (wr_id, wr_name, wr_age, wr_phonenum, wr_salary,
wr_working_exp, branchid, k_phonenum, location, licensenum)

1NF:

wr_phonenum, k_phonenum are multivalued attribute

2NF:

wr_id, wr_name, wr_age, wr_phonenum, wr_salary, wr_working_exp,
branchid

branchid, k_phonenum, location, licensenum

3NF:

wr_id, wr_name, wr_age, wr_phonenum, wr_salary, wr_working_exp,
branchid

branchid, k_phonenum, location, licensenum

No transitive dependency

Table:

wr_id, wr_name, wr_age, wr_phonenum, wr_salary,
wr_working_exp, branchid

branchid, k_phonenum, location, licensenum

Managekfc (branchid, k_phonenum, location, licensenum, mr_id,
mr_name, mr_age, mr_phonenum, mr_educertificate, mr_salary)

1NF:

k_phonenum, mr_phonenum are multivalued attribute

2NF:

branchid, k_phonenum, location, licensenum, mr_id

mr_id, mr_name, mr_age, mr_phonenum, mr_educertificate, mr_salary

3NF:

branchid, k_phonenum, location, licensenum, mr_id

mr_id, mr_name, mr_age, mr_phonenum, mr_educertificate, mr_salary

No transitive dependency

Table:

branchid, k_phonenum, location, licensenum, mr_id

**mr_id, mr_name, mr_age, mr_phonenum, mr_educertificate,
mr_salary**

Total Table:

serialnum, cr_name, cr_age, cr_phonenum, cr_tablenum

foodcode, foodname, price, quantity, vat

fdsr, serialnum, foodcode

~~serialnum, cr_name, cr_age, cr_phonenum, cr_tablenum~~

~~wr_id, wr_name, wr_age, wr_phonenum, wr_salary,
wr_working_exp~~

sw_id, serialnum, wr_id

~~wr_id, wr_name, wr_age, wr_phonenum, wr_salary,
wr_working_exp~~

cf_id, cf_name, cf_age, cf_phonenum, cf_salary, cf_cooking_exp

wc_id, wr_id, cf_id

wr_id, wr_name, wr_age, wr_phonenum, wr_salary,
wr_working_exp, branchid

~~branchid, k_phonenum, location, licensenum~~

branchid, k_phonenum, location, licensenum, mr_id

mr_id, mr_name, mr_age, mr_phonenum, mr_educertificate,
mr_salary

Final Table:

serialnum, cr_name, cr_age, cr_phonenum, cr_tablenum

foodcode, foodname, price, quantity, vat

fdsr, serialnum, foodcode

sw_id, serialnum, wr_id

cf_id, cf_name, cf_age, cf_phonenum, cf_salary, cf_cooking_exp

wc_id, wr_id, cf_id

**wr_id, wr_name, wr_age, wr_phonenum, wr_salary,
wr_working_exp, branchid**

branchid, k_phonenum, location, licensenum, mr_id

**mr_id, mr_name, mr_age, mr_phonenum, mr_educertificate,
mr_salary**

Table Creation with Constraint

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```
create table Customer_Info (
serialnum number(5) ,
cr_name varchar2(30) ,
cr_age number(5),
cr_phonenum number(11),
cr_tablenum number(5)
)
alter table Customer_Info add constraint customer_serialnum_pk primary key (serialnum)
alter table Customer_Info modify cr_tablenum number(5) not null
alter table Customer_Info add unique(cr_phonenum)
```

```
desc Customer_Info
```

[Results](#) [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

Object Type **TABLE** Object **CUSTOMER_INFO**

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```
create table Manager_Info(  
  mr_id number(5) primary key,  
  mr_name varchar2(25),  
  mr_age number(3) check(mr_age>=18),  
  mr_educertificate varchar2(50),  
  mr_phonenum number(11) unique,  
  mr_salary number(6) not null  
)
```

desc Manager_Info

Results Explain Describe Saved SQL History

Object Type TABLE Object MANAGER_INFO

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
MANAGER_INFO	MR_ID	Number	-	5	0	1	-	-	-
	MR_NAME	Varchar2	25	-	-	-	✓	-	-
	MR_AGE	Number	-	3	0	-	✓	-	-
	MR_EDUCERTIFICATE	Varchar2	50	-	-	-	✓	-	-
	MR_PHONENUM	Number	-	11	0	-	✓	-	-
	MR_SALARY	Number	-	6	0	-	-	-	-

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```
create table Branch_Info (  
  branchid number(5),  
  k_phonenum number(11),  
  location varchar2(50),  
  licensenum number(15),  
  mr_id number(5)  
)  
  
alter table Branch_Info add constraint branch_branchid_pk primary key(branchid)  
alter table Branch_Info modify location varchar2(50) not null  
alter table Branch_Info add constraint Branch_mr_id_fk foreign key (mr_id) references Manager_Info (mr_id)  
alter table Branch_Info add unique(k_phonenum)
```

desc Branch_Info

Results Explain Describe Saved SQL History

Object Type TABLE Object BRANCH_INFO

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
BRANCH_INFO	BRANCHID	Number	-	5	0	1	-	-	-
	K_PHONENUM	Number	-	11	0	-	✓	-	-
	LOCATION	Varchar2	50	-	-	-	-	-	-
	LICENSENUM	Number	-	15	0	-	✓	-	-
	MR_ID	Number	-	5	0	-	✓	-	-

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```
desc Chef_Info
```

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Desc Employee_Info

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMPLOYEE_INFO	WC_ID	Number	-	5	0	1	-	-	-
	WR_ID	Number	-	5	0	-	✓	-	-
	CF_ID	Number	-	5	0	-	✓	-	-
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Value Insertion

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```
create sequence serial1
start with 401
increment by 1
maxvalue 999

insert into Customer_Info (serialnum,cr_name,cr_age,cr_phonenum,cr_tablenum)
values(serial1.nextval,'Monjurul',45,1712345678,2)
insert into Customer_Info (serialnum,cr_name,cr_age,cr_phonenum,cr_tablenum)
values(serial1.nextval,'Momtahina',40,1787654321,2)
insert into Customer_Info (serialnum,cr_name,cr_age,cr_phonenum,cr_tablenum)
values(serial1.nextval,'Mustak',10,null,2)
insert into Customer_Info (serialnum,cr_name,cr_age,cr_phonenum,cr_tablenum)
values(serial1.nextval,'Sayem',22,1300000000,7)
insert into Customer_Info (serialnum,cr_name,cr_age,cr_phonenum,cr_tablenum)
values(serial1.nextval,'Najmul',22,1700000000,7)
insert into Customer_Info (serialnum,cr_name,cr_age,cr_phonenum,cr_tablenum)
values(serial1.nextval,'Joy',21,1800000000,7)
insert into Customer_Info (serialnum,cr_name,cr_age,cr_phonenum,cr_tablenum)
```

Results Explain Describe Saved SQL History

SERIALNUM	CR_NAME	CR_AGE	CR_PHONENUM	CR_TABLENUM
350	Monjurul	45	1712345678	2
351	Momtahina	40	1787654321	2
352	Mustak	10	-	2
353	Sayem	22	1300000000	7
354	Najmul	22	1700000000	7
355	Joy	21	1800000000	7
356	Fariha	22	1500112233	6
357	Sadia	23	1499994444	6

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```
insert into Menu(foodcode,foodname,price,quantity,vat)
values (2201,'Buddy Rice Combo',699,'2 Popcorn Rice Bowlz & 8pcs Wings','24%')
insert into Menu(foodcode,foodname,price,quantity,vat)
values (2210,'Buddy Zinger Combo',749,'A large Popcorn with 2 Zingers','17%')
insert into Menu(foodcode,foodname,price,quantity,vat)
values (2227,'Friendship Bucket',899,'3pcs Hot Wings,3pcs Strips','15%')
insert into Menu(foodcode,foodname,price,quantity,vat)
values (2230,'Hot Wings',279,'6pcs','10%')
insert into Menu(foodcode,foodname,price,quantity,vat)
values (2232,'Boneless Strips',489,'6pcs','10%')
insert into Menu(foodcode,foodname,price,quantity,vat)
values (2235,'Deluxe Zinger',399,'Layer of a veggie patty and cheese','10%')
insert into Menu(foodcode,foodname,price,quantity,vat)
values (2237,'Veggie Burger',279,'Topped with lettuce & mayo','15%')
```

Results Explain Describe Saved SQL History

FOODCODE	FOODNAME	PRICE	QUANTITY	VAT
2201	Buddy Rice Combo	699	2 Popcorn Rice Bowlz & 8pcs Wings	24%
2210	Buddy Zinger Combo	749	A large Popcorn with 2 Zingers	17%
2227	Friendship Bucket	899	3pcs Hot Wings,3pcs Strips	15%
2230	Hot Wings	279	6pcs	10%
2232	Boneless Strips	489	6pcs	10%
2235	Deluxe Zinger	399	Layer of a veggie patty and cheese	10%
2237	Veggie Burger	279	Topped with lettuce & mayo	15%
2239	Popcorn Chicken	219	Bite-sized boneless pieces	12%
2245	Tangy Fries	160	Large Pack	11%
2252	Mountain Dew	20	250ml	5%

10 rows returned in 0.00 seconds

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☒ Autocommit Display 10 ▼

```
insert into Order_Info(fdsr,serialnum,foodcode) values (600,350,2201)
insert into Order_Info(fdsr,serialnum,foodcode) values (601,351,2210)
insert into Order_Info(fdsr,serialnum,foodcode) values (602,352,2227)
insert into Order_Info(fdsr,serialnum,foodcode) values (603,353,2230)
insert into Order_Info(fdsr,serialnum,foodcode) values (604,354,2232)
insert into Order_Info(fdsr,serialnum,foodcode) values (605,355,2235)
insert into Order_Info(fdsr,serialnum,foodcode) values (606,356,2237)
insert into Order_Info(fdsr,serialnum,foodcode) values (607,357,2239)
insert into Order_Info(fdsr,serialnum,foodcode) values (608,358,2245)
insert into Order_Info(fdsr,serialnum,foodcode) values (609,359,2252)
```

```
select * from order_info
```

Results Explain Describe Saved SQL History

FDSR	SERIALNUM	FOODCODE
600	350	2201
601	351	2210
602	352	2227
603	353	2230
604	354	2232
605	355	2235
606	356	2237
607	357	2239
608	358	2245
609	359	2252

10 rows returned in 0.00 seconds

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☒ Autocommit Display 100

```
insert into Waiter_Info (wr_id,wr_name,wr_age, wr_phonenum, wr_salary,wr_working_exp,branchid)
values ( '1005','Abir' , '25', 1756987412,12000,'1 Years',5555)
insert into Waiter_Info (wr_id,wr_name,wr_age, wr_phonenum, wr_salary,wr_working_exp,branchid)
values ( '1006','Rony' , '24', 1818647896,12000,'6 Months',6666)
insert into Waiter_Info (wr_id,wr_name,wr_age, wr_phonenum, wr_salary,wr_working_exp,branchid)
values ( '1007','Imtiaz', '29', 1558745698,18000,'4 Years',7777)
insert into Waiter_Info (wr_id,wr_name,wr_age, wr_phonenum, wr_salary,wr_working_exp,branchid)
values ( '1008','Prodip', '23', 1785654236,12000,'3 Months',8888)
insert into Waiter_Info (wr_id,wr_name,wr_age, wr_phonenum, wr_salary,wr_working_exp,branchid)
values ( '1009','Adnan' , '30', 1865456664,20000,'5 Years',9999)
insert into Waiter_Info (wr_id,wr_name,wr_age, wr_phonenum, wr_salary,wr_working_exp,branchid)
values ( '1000','Sohel' , '26', 1874566546,12000,'1 Years',1010)

select * from Waiter_Info
```

Results Explain Describe Saved SQL History

WR_ID	WR_NAME	WR_AGE	WR_PHONENUM	WR_SALARY	WR_WORKING_EXP	BRANCHID
1001	Fahim	27	1715864258	15000	3 Years	1111
1002	Hasan	29	1787896541	20000	5 Years	2222
1003	Sartaz	25	1985621478	12000	2 Years	3333
1004	Ontu	32	1965478521	22000	7 Years	4444
1005	Abir	25	1756987412	12000	1 Years	5555
1006	Rony	24	1818647896	12000	6 Months	6666
1009	Adnan	30	1865456664	20000	5 Years	9999
1000	Sohel	26	1874566546	12000	1 Years	1010
1007	Imtiaz	29	1558745698	18000	4 Years	7777
1008	Prodip	23	1785654236	12000	3 Months	8888

10 rows returned in 0.00 seconds

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☒ Autocommit Display 100 ▼

```
insert into Receive_Order(sw_id, Serialnum, wr_id) values(1, 350, 1001)
insert into Receive_Order(sw_id, Serialnum, wr_id) values(2, 351, 1002)
insert into Receive_Order(sw_id, Serialnum, wr_id) values(3, 352, 1003)
insert into Receive_Order(sw_id, Serialnum, wr_id) values(4, 353, 1004)
insert into Receive_Order(sw_id, Serialnum, wr_id) values(5, 354, 1005)
insert into Receive_Order(sw_id, Serialnum, wr_id) values(6, 355, 1006)
insert into Receive_Order(sw_id, Serialnum, wr_id) values(7, 356, 1007)
insert into Receive_Order(sw_id, Serialnum, wr_id) values(8, 357, 1008)
insert into Receive_Order(sw_id, Serialnum, wr_id) values(9, 358, 1009)
insert into Receive_Order(sw_id, Serialnum, wr_id) values(10,359, 1000)
```

```
select * from Receive_Order
```

Results Explain Describe Saved SQL History

SW_ID	SERIALNUM	WR_ID
1	350	1001
2	351	1002
3	352	1003
4	353	1004
5	354	1005
6	355	1006
7	356	1007
8	357	1008
9	358	1009
10	359	1000

10 rows returned in 0.00 seconds

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☒ Autocommit Display 15 ▾

```
insert into Manager_Info (mr_id,mr_name,mr_age,mr_educertificate,mr_phonenum,mr_salary)
values (5005,'Mr Apon',31,'Bachelors in Management',1885456545,30000)
insert into Manager_Info (mr_id,mr_name,mr_age,mr_educertificate,mr_phonenum,mr_salary)
values (5006,'Mr Efty',33,'Bachelors in Hospitality',1999456545,31000)
insert into Manager_Info (mr_id,mr_name,mr_age,mr_educertificate,mr_phonenum,mr_salary)
values (5007,'Mr Adnan',32,'Bachelors in Accounting',1335456545,28000)
insert into Manager_Info (mr_id,mr_name,mr_age,mr_educertificate,mr_phonenum,mr_salary)
values (5008,'Mr Porosh',34,'Bachelors in Hospitality',1777456545,26000)
insert into Manager_Info (mr_id,mr_name,mr_age,mr_educertificate,mr_phonenum,mr_salary)
values (5009,'Mr Hasan',30,'Bachelors in Accounting',1885456546,29000)
insert into Manager_Info (mr_id,mr_name,mr_age,mr_educertificate,mr_phonenum,mr_salary)
values (5010,'Mr Fahim',28,'Bachelors in Accounting',1555456545,27000)

select * from Manager_Info
```

Results Explain Describe Saved SQL History

MR_ID	MR_NAME	MR_AGE	MR_EDUCERTIFICATE	MR_PHONENUM	MR_SALARY
5001	Mr Sohel	36	Bachelors in Hospitality	1889874569	35000
5002	Mr Abir	35	Bachelors in Management	1995456545	35000
5003	Mr Ontu	30	Bachelors in Hospitality	1756623456	32000
5004	Mr Rony	30	Bachelors in Management	1789544555	32000
5005	Mr Apon	31	Bachelors in Management	1885456545	30000
5006	Mr Efty	33	Bachelors in Hospitality	1999456545	31000
5007	Mr Adnan	32	Bachelors in Accounting	1335456545	28000
5008	Mr Porosh	34	Bachelors in Hospitality	1777456545	26000
5009	Mr Hasan	30	Bachelors in Accounting	1885456546	29000
5010	Mr Fahim	28	Bachelors in Accounting	1555456545	27000

10 rows returned in 0.01 seconds

[CSV Export](#)

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☒ Autocommit Display ▾

```
insert into Branch_Info (branchid,k_phonenum,location,licensenum,mr_id)
values (1111, 1818642669, 'Uttara' , 10101010101010, 5001)
insert into Branch_Info (branchid,k_phonenum,location,licensenum,mr_id)
values (2222, 1985456515, 'Khilgaon', 20202020202020, 5002)
insert into Branch_Info (branchid,k_phonenum,location,licensenum,mr_id)
values (3333, 1865456654, 'Mirpur' , 30303030303030, 5003)
insert into Branch_Info (branchid,k_phonenum,location,licensenum,mr_id)
values (4444, 1985665454, 'Gulshan', 40404040404040, 5004)
insert into Branch_Info (branchid,k_phonenum,location,licensenum,mr_id)
values (5555, 1895778999, 'Banani', 50505050505050, 5005)
insert into Branch Info (branchid.k_phonenum.location.licensenum.mr_id)
```

Results Explain Describe Saved SQL History

BRANCHID	K_PHONENUM	LOCATION	LICENSENUM	MR_ID
1111	1818642669	Uttara	10101010101010	5001
2222	1985456515	Khilgaon	20202020202020	5002
3333	1865456654	Mirpur	30303030303030	5003
4444	1985665454	Gulshan	40404040404040	5004
5555	1895778999	Banani	50505050505050	5005
6666	1985665444	Paltan	60606060606060	5006
7777	1756544555	Panthapath	70707070707070	5007
8888	1789654556	Adabor	80808080808080	5008
9999	1985665445	Wari	90909090909090	5009
1010	1789544566	Savar	10010010010010	5010

10 rows returned in 0.00 seconds

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☒ Autocommit Display 100 ▼

```
insert into Chef_Info(cf_id,cf_name,cf_age,cf_phonenum,cf_cooking_exp, cf_salary)
values(3001,'Nayeem',32,1734627348, '2 years', 18000)
insert into Chef_Info(cf_id,cf_name,cf_age,cf_phonenum,cf_cooking_exp, cf_salary)
values(3002,'Shovo',38,1634627558, '1 years', 17000)
insert into Chef_Info(cf_id,cf_name,cf_age,cf_phonenum,cf_cooking_exp, cf_salary)
values(3003,'Jamil',31,1334627348, '2 years' ,18500)
insert into Chef_Info(cf_id,cf_name,cf_age,cf_phonenum,cf_cooking_exp, cf_salary)
values(3004,'Asif',37,1834627342, '5 years' ,20000)
insert into Chef_Info(cf_id,cf_name,cf_age,cf_phonenum,cf_cooking_exp, cf_salary)
values(3005,'Hasib',39,1534627339, '6 years', 22000)
insert into Chef_Info(cf_id,cf_name,cf_age,cf_phonenum,cf_cooking_exp, cf_salary)
values(3006,'Sajib',30,1734627548, '2 years' ,16500)
insert into Chef_Info(cf_id,cf_name,cf_age,cf_phonenum,cf_cooking_exp, cf_salary)
values(3007,'Raju',41,1634625632, '6 years' ,22000)
```

Results Explain Describe Saved SQL History

CF_ID	CF_NAME	CF_AGE	CF_PHONENUM	CF_COOKING_EXP	CF_SALARY
3001	Nayeem	32	1734627348	2 years	18000
3002	Shovo	38	1634627558	1 years	17000
3003	Jamil	31	1334627348	2 years	18500
3004	Asif	37	1834627342	5 years	20000
3005	Hasib	39	1534627339	6 years	22000
3006	Sajib	30	1734627548	2 years	16500
3007	Raju	41	1634625632	6 years	22000
3008	Sumon	27	176839831	3 years	19000
3009	Mamun	32	18676240	4 years	20000
3010	Hasan	24	164062728	2 years	18000

10 rows returned in 0.00 seconds

[CSV Export](#)

User: HR

Home > SQL > SQL Commands

☒ Autocommit Display 100 ▾

```
insert into Employee_Info(wc_id, wr_id, cf_id) values(975, 1001, 3001)
insert into Employee_Info(wc_id, wr_id, cf_id) values(976, 1002, 3002)
insert into Employee_Info(wc_id, wr_id, cf_id) values(977, 1003, 3003)
insert into Employee_Info(wc_id, wr_id, cf_id) values(978, 1004, 3004)
insert into Employee_Info(wc_id, wr_id, cf_id) values(979, 1005, 3005)
insert into Employee_Info(wc_id, wr_id, cf_id) values(980, 1006, 3006)
insert into Employee_Info(wc_id, wr_id, cf_id) values(981, 1007, 3007)
insert into Employee_Info(wc_id, wr_id, cf_id) values(982, 1008, 3008)
insert into Employee_Info(wc_id, wr_id, cf_id) values(983, 1009, 3009)
insert into Employee_Info(wc_id, wr_id, cf_id) values(984, 1000, 3010)
```

Select * from Employee_info

Results Explain Describe Saved SQL History

WC_ID	WR_ID	CF_ID
980	1006	3006
981	1007	3007
982	1008	3008
983	1009	3009
984	1000	3010
975	1001	3001
976	1002	3002
977	1003	3003
978	1004	3004
979	1005	3005

10 rows returned in 0.00 seconds

[CSV Export](#)

QUESTIONS

Join:

1) Display managers name and find his job location whose id is 5004

User: HR

Home > SQL > **SQL Commands**

☒ Autocommit Display 100 ▾

```
select m.mr_name, b.location from manager_info m, branch_info b
where m.mr_id=b.mr_id and m.mr_id=5004
```

Results Explain Describe Saved SQL History

MR_NAME	LOCATION
Mr Rony	Gulshan

1 rows returned in 0.01 seconds [CSV Export](#)

2) Find out the waiter's name and age who takes order from Sayem.

User: HR

Home > SQL > **SQL Commands**

☒ Autocommit Display 100 ▾

```
select w.wr_name, w.wr_age from waiter_info w, receive_order r, customer_info c
where w.wr_id= r.wr_id and c.serialnum=r.serialnum and c.cr_name='Sayem'
```

Results Explain Describe Saved SQL History

WR_NAME	WR_AGE
Ontu	32

1 rows returned in 0.02 seconds [CSV Export](#)

3) Display customers name and their ordered food-name of table number 2

User: HR

Home > SQL > **SQL Commands**

☒ Autocommit Display 100 ▼

```
select c.cr_name, c.cr_tablenum, m.foodname from customer_info c, menu m, order_info o
where c.serialnum=o.serialnum and o.foodcode=m.foodcode and c.cr_tablenum=2
```

Results Explain Describe Saved SQL History

CR_NAME	CR_TABLENUM	FOODNAME
Monjurul	2	Buddy Rice Combo
Montahina	2	Buddy Zinger Combo
Mustak	2	Friendship Bucket

3 rows returned in 0.00 seconds [CSV Export](#)

Subquery

4) Display name, educational qualification and salary of all manager who gets salary more than Mr Ontu

User: HR

Home > SQL > **SQL Commands**

☒ Autocommit Display 100 ▼

```
select mr_name, mr_educertificate, mr_salary from manager_info
where mr_salary> (select mr_salary from manager_info where mr_name='Mr Ontu')
```

Results Explain Describe Saved SQL History

MR_NAME	MR_EDUCERTIFICATE	MR_SALARY
Mr Sohel	Bachelors in Hospitality	35000
Mr Abir	Bachelors in Management	35000

2 rows returned in 0.01 seconds [CSV Export](#)

5) Set 18000 as salary for all chef who gets less salary than chef id 3010

☒ Autocommit Display 10

```
update chef_info set cf_salary=18000 where cf_salary < (select cf_salary from chef_info where cf_id =3010)
```

Results Explain Describe Saved SQL History

2 row(s) updated.

0.02 seconds

6) Display all the customer's name and phone number who sits with Momtahina in the same table.

User: HR

Home > SQL > **SQL Commands**

☒ Autocommit Display 100

```
select cr_name, cr_phonenum from customer_info  
where cr_tablenum = (select cr_tablenum from customer_info where cr_name='Momtahina')
```

Results Explain Describe Saved SQL History

CR_NAME	CR_PHONENUM
Monjurul	1712345678
Momtahina	1787654321
Mustak	-

3 rows returned in 0.02 seconds [CSV Export](#)

Single row functions

7) Display foodcode, price, quantity, length of foodname for hot wings

User: HR

Home > SQL > SQL Commands

☒ Autocommit Display 100 ▼

```
select foodcode,price,quantity,length(foodname) from menu  
where lower(foodname)='hot wings'
```

Results Explain Describe Saved SQL History

FOODCODE	PRICE	QUANTITY	LENGTH(FOODNAME)
2230	279	6pcs	9

1 rows returned in 0.00 seconds

[CSV Export](#)

View

8) Create a view named Manager_View that shows the manager's name, phone number who received Bachelors in Hospitality degree. And also shows the waiters name who works under these managers.

User: HR

Home > SQL > SQL Commands

☒ Autocommit Display 100 ▼

```
create or replace view Manager_View as
select m.mr_name, m.mr_phonenum, w.wr_name from manager_info m, waiter_info w , branch_info b
where m.mr_id=b.mr_id and b.branchid=w.branchid  and m.mr_educertificate='Bachelors in Hospitality'

select * from Manager_View
```

Results Explain Describe Saved SQL History

MR_NAME	MR_PHONENUM	WR_NAME
Mr Sohel	1889874569	Fahim
Mr Ontu	1756623456	Sartaz
Mr Efty	1999456545	Rony
Mr Porosh	1777456545	Prodip

4 rows returned in 0.02 seconds

[CSV Export](#)

Group Function

9) Count the total number of waiters in KFC and also display their maximum and minimum salary.

User: HR

Home > SQL > **SQL Commands**

☒ Autocommit Display 100 ▼

```
select count(wr_id), max(wr_salary), min(wr_salary) from waiter_info
```

Results Explain Describe Saved SQL History

COUNT(WR_ID)	MAX(WR_SALARY)	MIN(WR_SALARY)
10	22000	12000

1 rows returned in 0.00 seconds [CSV Export](#)

10) Display summation and average salary of waiters whose age is equal or greater than 29. Label the column name as summation and average.

User: HR

Home > SQL > **SQL Commands**

☒ Autocommit Display 100 ▼

```
select sum(wr_salary) as summation, avg(wr_salary) as average from waiter_info  
where wr_age >= 29
```

Results Explain Describe Saved SQL History

SUMMATION	AVERAGE
80000	20000

1 rows returned in 0.00 seconds [CSV Export](#)