## Assignment 5 Katrin Jogi

## #Part1.

#query with three-way join.

#query finds the names of the buyers who have bought 20 items from "Category98" Select bname

From Buyer B, Buy Y, Item I Where B.bid=Y.bid and Y.iid=I.IID and I.quantity = 20 and I.category = "Category98"

## OUTPUT:

+
bname
FirstLastBuyer21345     FirstLastBuyer12961     FirstLastBuyer12125     FirstLastBuyer2278     FirstLastBuyer21135     FirstLastBuyer5895     FirstLastBuyer12987     FirstLastBuyer4044     FirstLastBuyer21306     FirstLastBuyer21306     FirstLastBuyer2363     FirstLastBuyer6929     FirstLastBuyer3138     FirstLastBuyer3138     FirstLastBuyer21975
++

#aggregate query using group by clause

#query returns the name, department ID and average salary grouped by department Select dname, D.dID, avg(salary)

From Employee E, WorksIn W, Department D Where E.eid=W.eid and W.diD=D.diD group by D.dID order by D.dID

## OUTPUT:

+	L	++
dname	dID	avg(salary)
DepartmentName1   DepartmentName2   DepartmentName3   DepartmentName4   DepartmentName5	1   2   3   4   5	90687.6000     83642.6000     119247.5000     82117.6667     102479.1667

DepartmentName6	6	72540.0000
DepartmentName7	j 7	74794.6667
DepartmentName8	8	67924.2500

#aggregate query using a group by clause and a having clause

#query finds the sellers who have posted more than 9 items and returns their #name, quantity posted, average price, minimum price and maximum price of the items Select sname, count(\*), avg(price), max(price), min(price)

```
from Seller S, Post P, Item I where S.sid=P.sid and P.IID=I.IID group by s.sname having count(*) > 9;
```

## **OUTPUT**:

sname	   count(*)	+   avg(price) +	+   max(price) +	+   min(price)   +
FirstLastSeller886	10	264.0000	481	1
FirstLastSeller4036	10	267.2000	500	44

# #Part2. select count(\*) from Employee;

#### **OUTPUT:**

```
+----+
| count(*) |
+-----+
| 350 |
```

#insert new employee 651

insert into Employee values (651, "FirstLastEmployee351", "1982-10-08", 0,81924);

#insert complete
select count(\*) from Employee;

#### OUTPUT:

```
select * from Employee
where eid = 651
.
```

## OUTPUT:

eID	ename	DOB	dependents	salary
651	FirstLastEmployee351	1982–10–08	0	81924

```
#update info for employee 651
update employee
set dob = "1982-10-18"
where eid = 651
;
```

#update complete select \* from Employee where eid = 651

## OUTPUT:

+   eID	ename	DOB	dependents	
651	FirstLastEmployee351	1982–10–18	0	81924

#update several tuples in Item with reference to Post

```
select * from Item I, Post P
where I.IID = P.IID
and P.sid = 200000886
```

## OUTPUT:

_				<b></b>			L	L
†     	IID	itemName	price	category	quantity	IID	sID	pdate
† 	400000167	ItemName167	166	Category14	5	400000167	200000886	2001-06-10
ļ	400007200	ItemName7200	387	Category55	15	400007200	200000886	2017-12-20
	400008804	ItemName8804	422	Category34	8	400008804	200000886	2012-01-06
	400013480	ItemName13480	242	Category26	20	400013480	200000886	1995–11–18
	400016339	ItemName16339	389	Category74	9	400016339	200000886	2014-08-04
	400028137	ItemName28137	481	Category22	1	400028137	200000886	2019-10-29
	400031258	ItemName31258	21	Category71	7	400031258	200000886	2023-05-30
	400038487	ItemName38487	336	Category24	16	400038487	200000886	2003-11-03
- 1								

```
400040073 | ItemName40073 | 1 | Category28 | 12 | 400040073 | 200000886 | 2007-09-25
  400048040 | ItemName48040 | 195 | Category73 |
                                                     8 | 400048040 | 200000886 | 2022-11-26
update Item I, Post P
 set I.price = price - 1
 where I.IID = P.IID
 and P.sid = 200000886
#update complete
select * from Item I, Post P
 where I.IID = P.IID
 and P.sid = 200000886
OUTPUT:
 IID
           | itemName
                          | price | category | quantity | IID
                                                                  | sID
                                                                               | pdate
 400000167 | ItemName167 | 165 | Category14 | 5 | 400000167 | 200000886 | 2001-06-10
  400007200 | ItemName7200 |
                              386 | Category55 |
                                                    15 | 400007200 | 200000886 | 2017-12-20
  400008804 | ItemName8804 |
                              421 | Category34 |
                                                     8 | 400008804 | 200000886 | 2012-01-06
 400013480 | ItemName13480 |
                              241 | Category26 |
                                                     20 | 400013480 | 200000886 | 1995-11-18
 400016339 | ItemName16339 |
                              388 | Category74 |
                                                     9 | 400016339 | 200000886 | 2014-08-04
 400028137 | ItemName28137 |
                              480 | Category22 |
                                                     1 | 400028137 | 200000886 | 2019-10-29
  400031258 | ItemName31258 |
                              20 | Category71 |
                                                     7 | 400031258 | 200000886 | 2023-05-30
 400038487 | ItemName38487 |
                              335 | Category24 |
                                                     16 | 400038487 | 200000886 | 2003-11-03
  400040073 | ItemName40073 |
                                0 | Category28 |
                                                     12 | 400040073 | 200000886 | 2007-09-25
 400048040 | ItemName48040 | 194 | Category73 |
                                                     8 | 400048040 | 200000886 | 2022-11-26
```