

Assignment 2

/*Lab 2, Taimoor Anwar(taian199) and Omid Lavakhamseh(omila405)*/

#Q1:

```
select * from jbemployee;
```

	id	name	salary	manager	birthyear	startyear
►	10	Ross, Stanley	15908	199	1927	1945
	11	Ross, Stuart	12067	NULL	1931	1932
	13	Edwards, Peter	9000	199	1928	1958
	26	Thompson, Bob	13000	199	1930	1970
	32	Smythe, Carol	9050	199	1929	1967
	33	Hayes, Evelyn	10100	199	1931	1963
	35	Evans, Michael	5000	32	1952	1974
	37	Raveen, Lemont	11985	26	1950	1974
	55	James, Mary	12000	199	1920	1969
	98	Williams, Judy	9000	199	1935	1969
	129	Thomas, Tom	10000	199	1941	1962
	157	Jones, Tim	12000	199	1940	1960

#Q2:

```
select name from jbdept
```

```
order by name;
```

	name
►	Bargain
	Book
	Candy
	Children's
	Children's
	Furniture
	Giftwrap
	Jewelry
	Junior Miss
	Junior's
	Linens
	Major App...

#Q4

```
select * from jbemployee where salary between 9000 and 10000;
```

	id	name	salary	manager	birthyear	startyear
▶	13	Edwards, Peter	9000	199	1928	1958
	32	Smythe, Carol	9050	199	1929	1967
	98	Williams, Judy	9000	199	1935	1969
	129	Thomas, Tom	10000	199	1941	1962
*	NULL	NULL	NULL	NULL	NULL	NULL

#Q5

```
select *,startyear-birthyear AS age from jbemployee;
```

	id	name	salary	manager	birthyear	startyear	age
▶	10	Ross, Stanley	15908	199	1927	1945	18
	11	Ross, Stuart	12067	NULL	1931	1932	1
	13	Edwards, Peter	9000	199	1928	1958	30
	26	Thompson, Bob	13000	199	1930	1970	40
	32	Smythe, Carol	9050	199	1929	1967	38
	33	Hayes, Evelyn	10100	199	1931	1963	32
	35	Evans, Michael	5000	32	1952	1974	22
	37	Raveen, Lemont	11985	26	1950	1974	24
	55	James, Mary	12000	199	1920	1969	49
	98	Williams, Judy	9000	199	1935	1969	34
	129	Thomas, Tom	10000	199	1941	1962	21
	157	Jones, Tim	12000	199	1940	1960	20

#Q7

```
select * from jbitem where supplier = (select id from jbsupplier where name = "Fisher-rice");
```

	id	name	dept	price	qoh	supplier
▶	43	Maze	49	325	200	89
	107	The 'Feel' Book	35	225	225	89
	119	Squeeze Ball	49	250	400	89
*	NULL	NULL	NULL	NULL	NULL	NULL

#Q8

```
select jbitem.*, jbsupplier.name as supplierName from jbitem
join jbsupplier on jbitem.supplier=jbsupplier.id
where jbsupplier.name="Fisher-Price";
```

	id	name	dept	price	qoh	supplier	supplierName
▶	43	Maze	49	325	200	89	Fisher-Price
	107	The 'Feel' Book	35	225	225	89	Fisher-Price
	119	Squeeze Ball	49	250	400	89	Fisher-Price

#Q9

select name from jbcity where id in (select city from jbsupplier);

	name
▶	Amherst
	Boston
	New York
	White Plains
	Hickville
	Atlanta
	Madison
	Paxton
	Dallas
	Denver
	Salt Lake City
	Los Angeles

#10

select name,color from jbparts where weight >(select weight from jbparts where name='card reader');

	name	color
▶	disk drive	black
	tape drive	black
	line printer	yellow
	card punch	gray

#11

select p1.name,p1.color,p1.weight from jbparts p1 join jbparts p2 on p2.name='card reader' where p1.weight>p2.weight;

	name	color
▶	disk drive	black
	tape drive	black
	line printer	yellow
	card punch	gray

#Q12:

select AVG(weight) from jbparts where color='black';

	AVG(weight)
▶	347.2500

-- #Q13:

```
select p.name as part_name,(sup.quan*p.weight) as total_weight,c.state from jbsupply sup left join  
jbparts p on sup.part=p.id
```

```
join jbsupplier on jbsupplier.id=sup.supplier
```

```
join jbcity c on c.id=jbsupplier.city
```

```
where c.state='Mass';
```

	part_name	total_weight	state
▶	central processor	10	Mass
	central processor	10	Mass
	memory	640	Mass
	memory	640	Mass
	disk drive	1370	Mass
	tape drive	450	Mass
	disk drive	685000	Mass
	tape drive	450000	Mass

#Q13:

```
select jbsupplier.name, p.name as part_name,(sup.quan*p.weight) as total_weight,c.state from jbsupply  
sup left join jbparts p on sup.part=p.id
```

```
join jbsupplier on jbsupplier.id=sup.supplier
```

```
join jbcity c on c.id=jbsupplier.city
```

```
where c.state='Mass';
```

	part_name	total_weight	state
▶	central processor	10	Mass
	central processor	10	Mass
	memory	640	Mass
	memory	640	Mass
	disk drive	1370	Mass
	tape drive	450	Mass
	disk drive	685000	Mass
	tape drive	450000	Mass

#Q14:

```
create table item_copy as
```

```
select * from jbitem where price < (select AVG(price) from jbitem) ;
```

#Q15:

create view item_copy_view as

```
select * from jbitem where price < (select AVG(price) from jbitem) ;
```

	id	name	dept	price	qoh	supplier
▶	11	Wash Cloth	1	75	575	213
	19	Bellbottoms	43	450	600	33
	21	ABC Blocks	1	198	405	125
	23	1 lb Box	10	215	100	42
	25	2 lb Box, Mix	10	450	75	42
	26	Earrings	14	1000	20	199
	43	Maze	49	325	200	89
	106	Clock Book	49	198	150	125
	107	The 'Feel' Book	35	225	225	89
	118	Towels, Bath	26	250	1000	213
	119	Squeeze Ball	49	250	400	89
	120	Twin Sheet	26	800	750	213
	165	Jean	65	825	500	33
	258	Shirt	58	650	1200	33

#Q16:

view is an virtual table and saves in views. It doesn't have rows(tuples) and columns(attributes) like tables.

View depends on tables so it is dynamic, table is independant and static.

Refrence:<https://pediaa.com>

#Q17:

create view view2 as

```
select jbdebit.id,(jbsale.item*jbsale.quantity) as total_cost from jbdebit left join jbsale on  
jbdebit.id=jbsale.debit;
```

	id	total_cost
▶	100586	212
	100586	381
	100593	46
	100592	258
	100581	590
	100581	120
	100594	52
	100582	26

#Q18:

```
select debit , (jbsale.quantity*jbitem.price) as total from jbsale join jbitem on jbsale.item=jbitem.id;
```

#Q19

```
SET SQL_SAFE_UPDATES = 0;
```

```
SET FOREIGN_KEY_CHECKS=0; -- to disable them
```

```
DELETE jbsupplier
```

```
from jbsupplier
```

```
INNER JOIN jbcity on jbsupplier.city = jbcity.id
```

```
where jbcity.name="Los Angeles";
```

```
SET FOREIGN_KEY_CHECKS=1; -- to re-enable them
```

```
SET SQL_SAFE_UPDATES = 1;
```

#Q20

```
CREATE view jbsale_supply2 (supplier,item,quantity) AS
```

```
select jbsupplier.name ,jbitem.name, jbitem.qoh
```

```
from jbsupplier,jbitem
```

```
where jbsupplier.id =jbitem.supplier
```

	supplier	item	quantity
▶	Cannon	Wash Cloth	575
	Levi-Strauss	Bellbottoms	600
	Playskool	ABC Blocks	405
	Whitman's	1 lb Box	100
	Whitman's	2 lb Box, Mix	75
	Fisher-Price	Maze	200
	White Stag	Jacket	300
	White Stag	Slacks	325
	Playskool	Clock Book	150
	Fisher-Price	The 'Feel' Book	225
	Cannon	Towels, Bath	1000
	Fisher-Price	Squeeze Ball	400
	Cannon	Twin Sheet	750
	Cannon	Queen Sheet	600
	White Stag	Ski Jumpsuit	125