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#Q1

```
select *  
from jbemployee;
```

#Q1	id	name	salary	manager	birthyear	startyear
	10	Ross, Stanley	15908	199	1927	1945
	11	Ross, Stuart	12067		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
	199	Bullock, J.D.	27000		1920	1920
	215	Collins, Joanne	7000	10	1950	1971
	430	Brunet, Paul C.	17674	129	1938	1959
	843	Schmidt, Herman	11204	26	1936	1956
	994	Iwano, Masahiro	15641	129	1944	1970
	1110	Smith, Paul	6000	33	1952	1973
	1330	Onstad, Richard	8779	13	1952	1971
	1523	Zugnoni, Arthur A.	19868	129	1928	1949
	1639	Choy, Wanda	11160	55	1947	1970
	2398	Wallace, Maggie J.	7880	26	1940	1959
	4901	Bailey, Chas M.	8377	32	1956	1975
	5119	Bono, Sonny	13621	55	1939	1963
	5219	Schwarz, Jason B.	13374	33	1944	1959

#Q2

```
select name from jbdept  
order by name;
```

```
#Q2
name
Bargain
Book
Candy
Children's
Children's
Furniture
Giftwrap
Jewelry
Junior Miss
Junior's
Linens
Major Appliances
Men's
Sportswear
Stationary
Toys
Women's
Women's
Women's
```

#Q3

select name,qoh from jbparts where qoh = 0;

```
#Q3
name                qoh
card reader         0
card punch          0
paper tape reader   0
paper tape punch    0
```

#Q4

select name from jbemployee where 9000 <= salary and salary<= 10000; #salary
between 9000 and 10000 also work

```
#Q4
name
Edwards, Peter
Smythe, Carol
Williams, Judy
Thomas, Tom
```

#Q5

select name,(startyear -birthyear) as age from jbemployee ;

```
#Q5
name          age
Ross, Stanley  18
Ross, Stuart   1
Edwards, Peter 30
Thompson, Bob  40
Smythe, Carol  38
Hayes, Evelyn  32
Evans, Michael 22
Raveen, Lemont 24
James, Mary    49
Williams, Judy 34
Thomas, Tom    21
Jones, Tim     20
Bullock, J.D.  0
Collins, Joanne 21
Brunet, Paul C. 21
Schmidt, Herman 20
Iwano, Masahiro 26
Smith, Paul    21
Onstad, Richard 19
Zugnoni, Arthur A.21
Choy, Wanda    23
Wallace, Maggie J.19
Bailey, Chas M. 19
Bono, Sonny    24
Schwarz, Jason B. 15
```

#Q6

select * from jbemployee where name like '%son,%';

```
#Q6
id   name          salary  manager  birthyear  startyear
26   Thompson, Bob   13000   199      1930       1970
```

#Q7

select name from jbitem where supplier =(select id from jbsupplier where name = 'Fisher-Price');

```
#Q7
name
Maze
The 'Feel' Book
Squeeze Ball
```

#Q8

```
select item.name
from jbitem item
join jbsupplier supplier on item.supplier = supplier.id
where supplier.name = 'Fisher-Price';
```

```
#Q8
name
Maze
The 'Feel' Book
Squeeze Ball
```

#Q9

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

```
#Q9
name
Amherst
Boston
New York
White Plains
Hickville
Atlanta
Madison
Paxton
Dallas
Denver
Salt Lake City
Los Angeles
San Diego
San Francisco
Seattle
```

#Q10

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

```
#Q10
name          color
disk drive    black
tape drive    black
line printer  yellow
```

#Q11

```
select part.name, part.color
from jbparts part , jbparts part2
where part2.name = 'card reader' and part.weight > part2.weight;
```

```
#Q11
name          color
disk drive    black
tape drive    black
line printer  yellow
```

#Q12

```
select avg(black_part.weight) as average_weight from jbparts black_part where
black_part.color='black';
```

```
#Q12
average_weight
347.2500
```

#Q13

```
select supplier.name, SUM(parts.weight*supply.quan) as total_weight
from jbsupply as supply, jbsupplier as supplier, jbcity as city, jbparts as parts
where supply.supplier = supplier.id and supplier.city = city.id and city.state = 'Mass'
and parts.id=supply.part
group by supplier.name;
```

```
#Q13
name          total_weight
DEC           3120
Fisher-Price  1135000
```

#Q14

```
CREATE TABLE jbitem_new
```

```
(
  `id` int,
  `name` VARCHAR(20),
  `dept` int,
  `price` int,
  `qoh` int,
  `supplier` int,
  primary key (`id`),
  foreign key (`dept`) references `jbdept`(`id`),
  foreign key (`supplier`) references `jbsupplier`(`id`)
```

);

```
insert into jbitem_new (`id`,`name`,`dept`,`price`,`qoh`,`supplier`)
```

```
select * from jbitem where price < (select avg(item.price) from jbitem as item);
```

```
select * from jbitem_new;
```

#Q14

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