

ASSIGNMENT 3

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Question 1:

SQL 1 

```
1 SELECT * FROM jbemployee;
```

	id	name	salary	manager	birthyear	startyear
1	157	Jones, Tim	12000	199	1940	1960
2	1110	Smith, Paul	6000	33	1952	1973
3	35	Evans, Michael	5000	32	1952	1974
4	129	Thomas, Tom	10000	199	1941	1962
5	13	Edwards, Peter	9000	199	1928	1958
6	215	Collins, Joanne	7000	10	1950	1971
7	55	James, Mary	12000	199	1920	1969
8	26	Thompson, Bob	13000	199	1930	1970
9	98	Williams, Judy	9000	199	1935	1969
10	32	Smythe, Carol	9050	199	1929	1967
11	33	Hayes, Evelyn	10100	199	1931	1963
12	199	Bullock, J.D.	27000	NULL	1920	1940


Result: 25 rows returned in 19ms


At line 1:

```
SELECT * FROM jbemployee
```

Question 2:

Database Structure | Browse Data | Edit Pragmas | Execute SQL



SQL 1 

```
1  SELECT name FROM jbdept;
```

	name
1	Book
2	Candy
3	Furniture
4	Major Appliances
5	Jewelry
6	Children's
7	Junior's
8	Men's
9	Sportswear
10	Giftwrap
11	Bargain
12	Linens

Result: 19 rows returned in 20ms
At line 1:
SELECT name FROM jbdept;

Question 3:

The screenshot shows a database IDE interface with the following components:

- Top Bar:** Contains tabs for "Database Structure", "Browse Data", "Edit Pragmas", and "Execute SQL".
- Toolbar:** Includes icons for file operations (save, open, print), navigation (back, forward), and execution (run, refresh).
- SQL Editor:** Displays a single SQL query: `1 SELECT name FROM jbparts WHERE qoh == 0;`
- Results Panel:** Shows the output of the query as a table with one column, "name", and four rows of data.
- Execution Log:** Located at the bottom, it reports: "Result: 4 rows returned in 20ms", "At line 1:", and the full SQL statement.

	name
1	paper tape reader
2	paper tape punch
3	card reader
4	card punch

Result: 4 rows returned in 20ms
At line 1:
SELECT name FROM jbparts WHERE qoh == 0;

Question 4:

SQL 1 

```
1 SELECT name FROM jbemployee WHERE salary >= 10000 AND salary <= 20000;
```

	name
1	Jones, Tim
2	Thomas, Tom
3	James, Mary
4	Thompson, Bob
5	Hayes, Evelyn
6	Schmidt, Herman
7	Choy, Wanda
8	Bono, Sonny
9	Raveen, Lemont
10	Schwarz, Jason B.
11	Zugnoni, Arthur A.
12	Brunet, Paul C.

Result: 15 rows returned in 8ms

At line 1:

```
SELECT name FROM jbemployee WHERE salary >= 10000 AND salary <= 20000;
```

Question 5:

SQL 1 

```
1 SELECT name,dept,price,price + price*0.10 FROM jbitem WHERE dept = 49 ;
```

	name	dept	price	price + price*0.10
1	Maze	49	325	357.5
2	Clock Book	49	198	217.8
3	Squeeze Ball	49	250	275.0

Result: 3 rows returned in 8ms

At line 1:

```
SELECT name,dept,price,price + price*0.10 FROM jbitem WHERE dept = 49 ;
```

Question 6:

SQL 1 

```
1 SELECT name,id,salary FROM jbemployee WHERE name LIKE "%, S%"
```

	name	id	salary
1	Bono, Sonny	5119	13621
2	Ross, Stanley	10	15908
3	Ross, Stuart	11	12067

Result: 3 rows returned in 9ms

At line 1:

```
SELECT name,id,salary FROM jbemployee WHERE name LIKE "%, S%"
```

Question 7:

SQL 1 

```
1 SELECT DISTINCT jbparts.name, jbparts.weight
2 FROM jbparts
3 WHERE jbparts.id IN
4     (SELECT jbsupply.part
5      FROM jbsupply, jbsupplier
6      WHERE jbsupplier.id = jbsupply.supplier AND jbsupplier.name="DEC")
```

	name	weight
1	central processor	10
2	memory	20
3	disk drive	685
4	tape drive	450

Result: 4 rows returned in 11ms
At line 1:
SELECT DISTINCT jbparts.name, jbparts.weight
FROM jbparts

Question 8:

SQL 1 

```
1 SELECT DISTINCT jbparts.name, jbparts.weight
2 FROM jbparts, jbsupplier, jbsupply
3 WHERE jbsupplier.id = jbsupply.supplier AND jbsupply.part = jbparts.id AND jbsupplier.name = "DEC"
```

	name	weight
1	central processor	10
2	memory	20
3	disk drive	685
4	tape drive	450

Result: 4 rows returned in 12ms

At line 1:

```
SELECT DISTINCT jbparts.name, jbparts.weight FROM jbparts, jbsupplier, jbsupply WHERE jbsupplier.id = jbsupply.supplier AND
jbsupply.part = jbparts.id AND jbsupplier.name = "DEC"
```


Question 9:

Database Structure | Browse Data | Edit Pragmas | Execute SQL

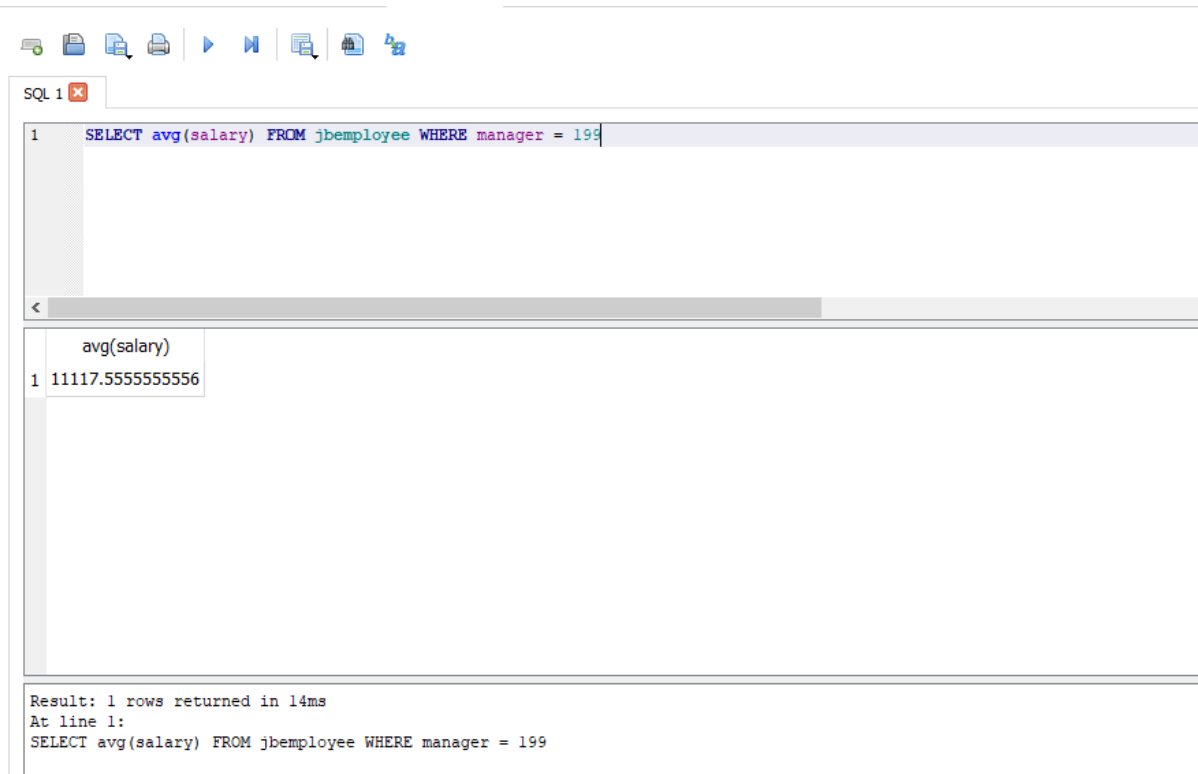
SQL 1

```
1 SELECT name, color FROM jbparts WHERE weight >
2 (SELECT weight from jbparts WHERE color = "black" AND name = "tape drive")
```

	name	color
1	disk drive	black
2	line printer	yellow

Result: 2 rows returned in 12ms
At line 1:
SELECT name, color FROM jbparts WHERE weight >
(SELECT weight from jbparts WHERE color = "black" AND name = "tape drive")

Question 11:



The image shows a SQL IDE window titled "SQL 1". The query editor contains the following SQL statement:

```
1 SELECT avg(salary) FROM jbemployee WHERE manager = 199
```

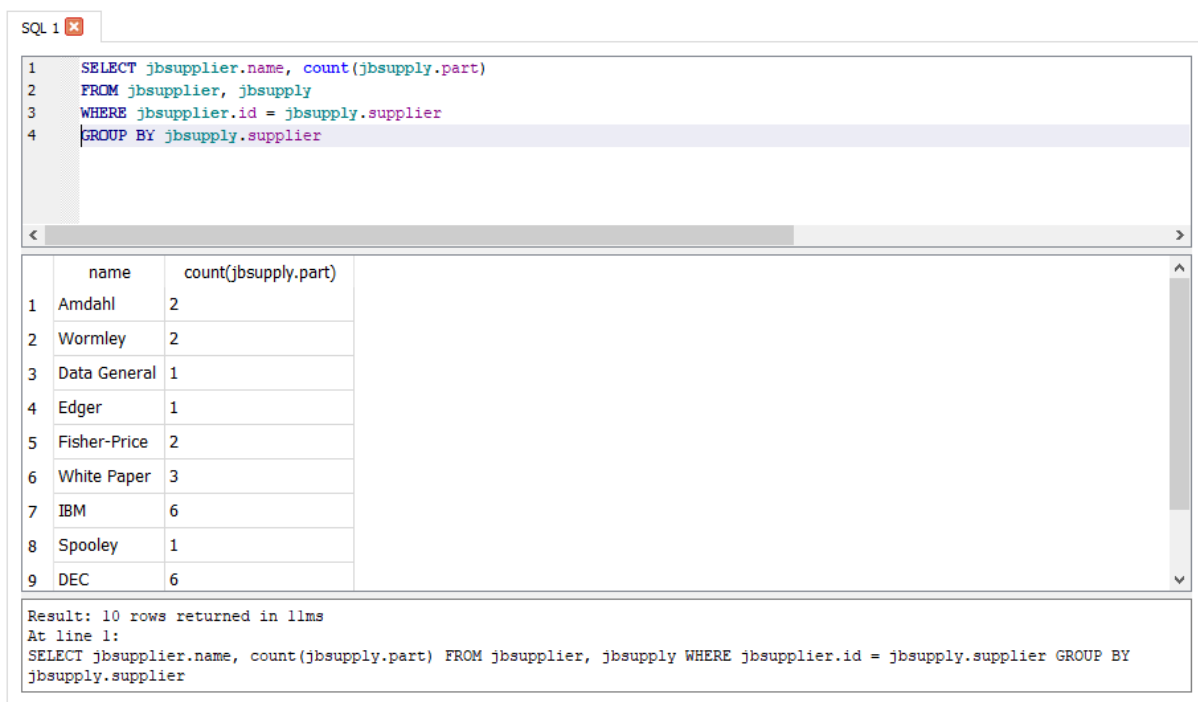
Below the query editor, the results are displayed in a table with one column, "avg(salary)".

	avg(salary)
1	11117.5555555556

At the bottom of the window, the following text is displayed:

Result: 1 rows returned in 14ms
At line 1:
SELECT avg(salary) FROM jbemployee WHERE manager = 199

Question 12:



The image shows a SQL IDE window titled "SQL 1". The query editor contains the following SQL statement:

```
1 SELECT jbsupplier.name, count(jbsupply.part)
2 FROM jbsupplier, jbsupply
3 WHERE jbsupplier.id = jbsupply.supplier
4 GROUP BY jbsupply.supplier
```


Below the query editor, the results are displayed in a table with two columns, "name" and "count(jbsupply.part)".

	name	count(jbsupply.part)
1	Amdahl	2
2	Wormley	2
3	Data General	1
4	Edger	1
5	Fisher-Price	2
6	White Paper	3
7	IBM	6
8	Spooley	1
9	DEC	6


At the bottom of the window, the following text is displayed:

Result: 10 rows returned in 11ms
At line 1:
SELECT jbsupplier.name, count(jbsupply.part) FROM jbsupplier, jbsupply WHERE jbsupplier.id = jbsupply.supplier GROUP BY jbsupply.supplier

Question 14:

SQL 1 





```
1  INSERT INTO jbsupplier VALUES
2  (1998, 'Koret', 900)
```



Result: query executed successfully. Took 3ms, 1 rows affected
At line 1:
INSERT INTO jbsupplier VALUES
 (1998, 'Koret', 900)

TABLES REFERENCES:

CITY:

Table: jbcity							
	id	name	state				
	Filter	Filter	...				
1	900	Los Angeles	Calif				
2	946	Oakland	Calif				
3	945	El Cerrito	Calif				
4	303	Atlanta	Ga				
5	941	San Francisco	Calif				
6	21	Boston	Mass				
7	752	Dallas	Tex				
8	802	Denver	Colo				
9	106	White Plains	Neb				
10	10	Amherst	Mass				
11	981	Seattle	Wash				
12	609	Paxton	Ill				
13	100	New York	NY				
14	921	San Diego	Calif				
15	118	Hickville	Okla				
16	841	Salt Lake City	Utah				
17	537	Madison	Wisc				




DEBIT

Database Structure Browse Data Edit Pragmas Execute SQL				
Table: jbdebit				
	id	sdate	employee	account
	Filter	Filter	Filter	Filter
1	100581	1995-01-15 1...	157	10000000
2	100582	1995-01-15 1...	1110	14356540
3	100586	1995-01-16 1...	35	14096831
4	100592	1995-01-17 0...	129	10000000
5	100593	1995-01-18 1...	35	11652133
6	100594	1995-01-18 1...	215	12591815

DEPT

Table: jbdept    

	id	name	store	floor	manager
	Filter	Filter	Filter	Filter	Filter
1	35	Book	5	1	55
2	10	Candy	5	1	13
3	19	Furniture	7	4	26
4	20	Major Applian...	7	4	26
5	14	Jewelry	8	1	33
6	43	Children's	8	2	32
7	65	Junior's	7	3	37
8	58	Men's	7	2	129
9	60	Sportswear	5	1	10
10	99	Giftwrap	5	1	98
11	1	Bargain	5	0	37
12	26	Linens	7	3	157
13	63	Women's	7	3	32
14	49	Toys	8	2	35
15	70	Women's	5	1	10
16	73	Children's	5	1	10
17	34	Stationary	5	1	33
18	47	Junior Miss	7	2	129

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	id	name	dept	price	qoh	supplier
	Filter	Filter	Filter	Filter	Filter	Filter
1	26	Earrings	14	1000	20	199
2	118	Towels, Bath	26	250	1000	213
3	43	Maze	49	325	200	89
4	106	Clock Book	49	198	150	125
5	23	1 lb Box	10	215	100	42
6	52	Jacket	60	3295	300	15
7	165	Jean	65	825	500	33
8	258	Shirt	58	650	1200	33
9	120	Twin Sheet	26	800	750	213
10	301	Boy's Jean Suit	43	1250	500	33
11	121	Queen Sheet	26	1375	600	213
12	101	Slacks	63	1600	325	15
13	115	Gold Ring	14	4995	10	199
14	25	2 lb Box, Mix	10	450	75	42
15	119	Squeeze Ball	49	250	400	89
16	11	Wash Cloth	1	75	575	213
17	19	Bellbottoms	43	450	600	33
18	21	ABC Blocks	1	198	405	125

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Table: jbparts



	id	name	color	weight	qoh
	Filter	Filter	Filter	Filter	Filter
1	1	central processor	pink	10	1
2	2	memory	gray	20	32
3	3	disk drive	black	685	2
4	4	tape drive	black	450	4
5	5	tapes	gray	1	250
6	6	line printer	yellow	578	3
7	7	l-p paper	white	15	95
8	8	terminals	blue	19	15
9	13	paper tape reader	black	107	0
10	14	paper tape punch	black	147	0
11	9	terminal paper	white	2	350
12	10	byte-soap	clear	0	143
13	11	card reader	gray	327	0
14	12	card punch	gray	427	0

Table:

jbsale



	debit	item	quantity
	Filter	Filter	Filter
1	100581	118	5
2	100581	120	1
3	100582	26	1
4	100586	127	3
5	100586	106	2
6	100592	258	1
7	100593	23	2
8	100594	52	1



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Table:



jbstore







	id	city
	Filter	Filter
1	5	941
2	7	946
3	8	945
4	9	941

Table:  jbsupplier     

	id	name	city
	Filter	Filter	Filter
1	199	Koret	900
2	213	Cannon	303
3	33	Levi-Strauss	941
4	89	Fisher-Price	21
5	125	Playskool	752
6	42	Whitman's	802
7	15	White Stag	106
8	475	DEC	10
9	122	White Paper	981
10	440	Spooley	609
11	241	IBM	100
12	62	Data General	303
13	5	Amdahl	921
14	20	Wormley	118
15	67	Edger	841
16	999	A E Neumann	537
17	1998	Koret	900

Table: jbsupply    

	supplier	part	shipdate	quan
	Filter	Filter	Filter	Filter
1	475	1	1993-12-31	1
2	475	2	1994-05-31	32
3	475	3	1993-12-31	2
4	475	4	1994-05-31	1
5	122	7	1995-02-01	144
6	122	7	1995-02-02	48
7	122	9	1995-02-01	144
8	440	6	1994-10-10	2
9	241	4	1993-12-31	1
10	62	3	1994-06-18	3
11	475	2	1993-12-31	32
12	475	1	1994-07-01	1
13	5	4	1994-11-15	3
14	5	4	1995-01-22	6
15	20	5	1995-01-10	20
16	20	5	1995-01-11	75
17	241	1	1995-06-01	1
18	241	2	1995-06-01	32



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EMPLOYEE

Table: jbemployee

	id	name	salary	manager	birthyear	startyear
	Filter	Filter	Filter	Filter	Filter	Filter
1	157	Jones, Tim	12000	199	1940	1960
2	1110	Smith, Paul	6000	33	1952	1973
3	35	Evans, Michael	5000	32	1952	1974
4	129	Thomas, Tom	10000	199	1941	1962
5	13	Edwards, Peter	9000	199	1928	1958
6	215	Collins, Joanne	7000	10	1950	1971
7	55	James, Mary	12000	199	1920	1969
8	26	Thompson, Bob	13000	199	1930	1970
9	98	Williams, Judy	9000	199	1935	1969
10	32	Smythe, Carol	9050	199	1929	1967
11	33	Hayes, Evelyn	10100	199	1931	1963
12	199	Bullock, J.D.	27000	NULL	1920	1940
13	4901	Bailey, Chas M.	8377	32	1956	1975
14	843	Schmidt, Her...	11204	26	1936	1956
15	2398	Wallace, Mag...	7880	26	1940	1959
16	1639	Choy, Wanda	11160	55	1947	1970
17	5119	Bono, Sonny	13621	55	1939	1963
18	37	Raveen, Lemont	11985	26	1950	1974

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