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## SQL1

Additional Practices

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## SQL1

### Additional Practices

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# **Additional Practices**

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These exercises can be used for extra practice when having discussed the following topics: SQL basic select, basic SQL\*Plus and SQL functions.

1. Show all data of the clerks and analysts who have been hired after the year 1981 and are working in department 20.

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO	STARS
7788	SCOTT	ANALYST	7566	09-DEC-82	3000		20	
7876	ADAMS	CLERK	7788	12-JAN-83	1100		20	

2. Show the name, job, salary and commission of those employees whose salary is higher than their commission. Sort data by the difference between the salary and commission with highest difference displayed first.

ENAME	JOB	SAL	COMM
TURNER	SALESMAN	1500	0
ALLEN	SALESMAN	1600	460
WARD	SALESMAN	1250	625

3. Show the employees that have no commission with a 10% raise of their salary (round the salaries).

New salary

```

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The salary of Smith after a 10% raise is 880
The salary of Jones after a 10% raise is 35998
The salary of Blake after a 10% raise is 3135
The salary of Clark after a 10% raise is 2695
The salary of Scott after a 10% raise is 3300
The salary of King after a 10% raise is 6050
The salary of Adams after a 10% raise is 1331
The salary of James after a 10% raise is 1045
The salary of Ford after a 10% raise is 3300
The salary of Miller after a 10% raise is 1573

```

10 rows selected.

4. Show the name of all employees together with the number of years and the number of completed months that they have been employed.

ENAME	YEARS	MONTHS
KING	16	1
BLAKE	16	8
CLARK	16	6
JONES	16	8
MARTIN	16	3
ALLEN	16	10
TURNER	16	3
JAMES	16	0
WARD	16	10
FORD	16	0
SMITH	17	0
SCOTT	15	0
ADAMS	14	11
MILLER	15	11

14 rows selected.

5. Show those employees that have a name starting with "J", "K", "L", or "M".

ENAME
KING
JONES
MARTIN
JAMES
MILLER

6. Show all employees, while indicating through "Yes" or "No" whether they have commission or not.

ENAME	SAL	COM
SMITH	800	No
ALLEN	1600	Yes
WARD	1250	Yes
JONES	32725	No
MARTIN	1250	Yes
BLAKE	2850	No
CLARK	2450	No

(Note: results continued on next page)

SCOTT	3000	No
KING	5500	No
TURNER	1500	Yes
ADAMS	1210	No
JAMES	950	No
FORD	3000	No
MILLER	1430	No

14 rows selected.

These exercises can be used for extra practice when having discussed the following topics: SQL basic select, basic SQL\*Plus, SQL functions, Joins, Group functions.

7. Show the department names, locations, names, job titles, and salaries of employees that work in New York.

DNAME	LOC	ENAME	JOB	SAL
ACCOUNTING	NEW YORK	KING	PRESIDENT	5000
ACCOUNTING	NEW YORK	CLARK	MANAGER	2450
ACCOUNTING	NEW YORK	MILLER	CLERK	1300

8. How many employees have a name that ends with an "S"? Create two possible solutions.

COUNT(\*)

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3

9. Show all departments, name and location and the number of employees working on that department. Make sure that departments without employees are included as well.

DEPTNO	DNAME	LOC	COUNT (E.EMPNO)
10	ACCOUNTING	NEW YORK	3
20	RESEARCH	DALLAS	5
30	SALES	CHICAGO	6
40	OPERATIONS	BOSTON	0

10. Which jobs can be found in department 10, as well as in department 20, as well as in department 30?

JOB

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CLERK

MANAGER

11. Which jobs can be found in the departments RESEARCH and SALES and how many employees do these jobs? Show the job with the highest frequency first.

JOB	FREQUENCY
SALESMAN	4
CLERK	3
ANALYST	2
MANAGER	2

These exercises can be used to have some extra practice when having discussed the following topics: SQL basic select, basic SQL\*Plus, SQL functions, Joins, Group functions, Sub-query.

12. Show all employees that have been hired in the first half of the month (before the 16th of the month).

ENAME	HIREDATE
BLAKE	01-MAY-81
CLARK	09-JUN-81
JONES	02-APR-81
TURNER	08-SEP-81
JAMES	03-DEC-81
FORD	03-DEC-81
SCOTT	09-DEC-82
ADAMS	12-JAN-83

8 rows selected.

13. Show the names, salaries, and the number of dollars (in thousands) that all employees earn.

ENAME	SAL	THOUSANDS
KING	5000	5
BLAKE	2850	2
CLARK	2450	2
JONES	2975	2
MARTIN	1250	1
ALLEN	1600	1
TURNER	1500	1
JAMES	950	0
WARD	1250	1
FORD	3000	3
SMITH	800	0
SCOTT	3000	3
ADAMS	1100	1
MILLER	1300	1

14 rows selected.

14. Show all employees, with a manager that has a salary that is higher than 2000. Show the following data: employee name, manager name, manager salary, and salary grade of the manager.

ENAME	MANAGER	SAL	GRADE
BLAKE	KING	5000	5
CLARK	KING	5000	5
JONES	KING	5000	5
MARTIN	BLAKE	2850	4
ALLEN	BLAKE	2850	4
TURNER	BLAKE	2850	4
JAMES	BLAKE	2850	4
WARD	BLAKE	2850	4
FORD	JONES	2975	4
SMITH	FORD	3000	4
SCOTT	JONES	2975	4
ADAMS	SCOTT	3000	4
MILLER	CLARK	2450	4

13 rows selected.

15. Show the employee with the highest salary grouped by their manager. Order the list on manager number.

MGR	ENAME	SAL
7566	FORD	3000
7566	SCOTT	3000
7698	ALLEN	1600
7782	MILLER	1300
7788	ADAMS	1100
7839	JONES	2975
7902	SMITH	800

7 rows selected.

16. Show the department number and the lowest salary of the department with the highest average salary.

DEPTNO	MIN(SAL)
10	1300



17. Show the department numbers, names, and locations of those departments where no salesman are working.

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
40	OPERATIONS	BOSTON

18. Show the department number, department name, and the number of employees working in that department for the department(s) that:

a. Includes less than 4 employees

DEPTNO	DNAME	COUNT (*)
10	ACCOUNTING	3

b. Has the maximum number of employees

DEPTNO	DNAME	COUNT (*)
30	SALES	6

c. Has the minimum number of employees

DEPTNO	DNAME	COUNT (*)
10	ACCOUNTING	3

19. Show employee number, name, salary, department number, and the average salary of their department, for all employees.

EMPNO	ENAME	DEPTNO	AVG (S. SAL)
7782	CLARK	10	2916.6667
7839	KING	10	2916.6667
7934	MILLER	10	2916.6667
7876	ADAMS	20	2175
7902	FORD	20	2175
7566	JONES	20	2175
7788	SCOTT	20	2175
7369	SMITH	20	2175
7499	ALLEN	30	1566.6667
7698	BLAKE	30	1566.6667
7900	JAMES	30	1566.6667
7654	MARTIN	30	1566.6667
7844	TURNER	30	1566.6667
7521	WARD	30	1566.6667

14 rows selected.

20. Show all employees that have been hired on the same day on which the maximum number of employees has been hired.

ENAME	DAY
JONES	THURSDAY
JAMES	THURSDAY
FORD	THURSDAY
SCOTT	THURSDAY

21. Create a birthday overview based on the hiredate of the employees. Sort the birthdays in ascending order.

ENAME	BIRTHDAY
ADAMS	January 12
MILLER	January 23
ALLEN	February 20
WARD	February 22
JONES	April 02
BLAKE	May 01
CLARK	June 09
TURNER	September 08
MARTIN	September 28
KING	November 17
JAMES	December 03
FORD	December 03
SCOTT	December 09
SMITH	December 17

14 rows selected.

22. Show the department number, name, the number of employees and the average salary of all departments together with the names, salaries, and jobs of the employees working in each department.

DEPTNO	DNAME	EMPLOYEES	AVG_SAL	ENAME	SAL	JOB
10	ACCOUNTING	3	2916.67	CLARK	2450	MANAGER
				KING	5000	PRESIDENT
				MILLER	1300	CLERK
20	RESEARCH	5	2175.00	ADAMS	1100	CLERK
				FORD	3000	ANALYST
				JONES	2975	MANAGER
				SCOTT	3000	ANALYST
				SMITH	800	CLERK
30	SALES	6	1566.67	ALLEN	1600	SALESMAN
				BLAKE	2850	MANAGER
				JAMES	950	CLERK
				MARTIN	1250	SALESMAN
				TURNER	1500	SALESMAN
				WARD	1250	SALESMAN
40	OPERATIONS	0	No average			

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**Additional  
Practice  
Solutions**

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These exercises can be used for extra practice when having discussed the following topics: SQL basic select, basic SQL\*Plus and SQL functions.

1. Show all data of the clerks and analysts that have been hired after the year 1981 and are working on department 20.

```
SQL> SELECT *
2 FROM emp
3 WHERE job IN ('CLERK', 'ANALYST')
4 AND hiredate >= TO_DATE('01-JAN-1982', 'DD-MON-YYYY')
5 AND deptno = 20;
```

2. Show the name, job, salary and commission of those employees whose salary is higher than commission. Sort data by the difference between the salary and commission difference with highest difference first.

```
SQL> SELECT ename, job, sal, comm
2 FROM emp
3 WHERE sal > comm
4 ORDER BY sal - comm desc;
```

3. Show the employees that have no commission with a 10% raise of their salary (round the salaries).

```
SQL> SELECT 'The salary of ' || initcap(ename)
2 || ' after a 10% raise is '
3 || ROUND(sal * 1.1) "New salary"
4 FROM emp
5 WHERE comm IS NULL;
```

4. Show the name of all employees together with the number of years and the number of completed months that they have been employed.

```
SQL> SELECT ename,
2 TRUNC(MONTHS_BETWEEN(SYSDATE, hiredate)/12)
3 YEARS,
4 TRUNC(MOD(MONTHS_BETWEEN(SYSDATE, hiredate),
5 12)) MONTHS
6 FROM emp;
```

5. Show those employees that have a name starting with "J", "K", "L", or "M".

```
SQL> SELECT ename
2 FROM emp
3 WHERE SUBSTR(ename, 1,1) IN ('J', 'K', 'L', 'M');
```

6. Show all employees, while indicating through “Yes” or “No” whether they have commission or not.

```
SQL> SELECT   ename, sal,
2            decode(comm, NULL, 'No', 'Yes') commission
3 FROM emp;
```

These exercises can be used for extra practice when having discussed the following topics: SQL basic select, basic SQL\*Plus, SQL functions, Joins, Group functions.

7. Show the department names, locations, names, job titles and salaries of employees that work in New York.

```
SQL> SELECT   d.dname, d.loc,
2            e.ename, e.job, e.sal
3 FROM       emp e, dept d
4 WHERE      e.deptno = d.deptno
5 AND        d.loc = 'NEW YORK';
```

8. How many employees have a name that ends with an “S”? Create two possible solutions.

```
SQL> SELECT   COUNT(*)
2 FROM       emp
3 WHERE      ename LIKE '%S';
```

```
SQL> SELECT   COUNT(*)
2 FROM       emp
3 WHERE      SUBSTR(ename, -1) = 'S';
```

9. Show all departments, name and location and the number of employees working on that department. Make sure that departments without employees are included as well.

```
SQL> SELECT   d.deptno, d.dname, d.loc, COUNT(e.empno)
2 FROM       emp e, dept d
3 WHERE      e.deptno(+) = d.deptno
4 GROUP BY   d.deptno, d.dname, d.loc;
```

10. Which jobs can be found in department 10, as well as in department 20, as well as in department 30?

```
SQL> SELECT    DISTINCT e1.job
  2 FROM      emp e1, emp e2, emp e3
  3 WHERE     e1.deptno = 10
  4 AND      e2.deptno = 20
  5 AND      e3.deptno = 30
  6 AND      e1.job = e2.job
  7 AND      e2.job = e3.job;
```

11. Which jobs can be found in the departments RESEARCH and SALES and how many employees do these jobs? Show the job with the highest frequency first.

```
SQL> SELECT    e.job, count(e.job) FREQUENCY
  2 FROM      emp e, dept d
  3 WHERE     e.deptno = d.deptno
  4 AND      d.dname IN ('RESEARCH', 'SALES')
  5 GROUP BY  e.job
  6 ORDER BY  FREQUENCY DESC;
```

These exercises can be used to have some extra practice when having discussed the following topics: SQL basic select, basic SQL\*Plus, SQL functions, Joins, Group functions, Sub-query.

12. Show all employees that have been hired in the first half of the month (before the 16th of the month).

```
SQL> SELECT    ename, hiredate
  2 FROM      emp
  3 WHERE     TO_CHAR(hiredate, 'DD') < 16;
```

13. Show the names, salaries, and the number of dollars (in thousands) that all employees earn.

```
SQL> SELECT    ename, sal, TRUNC(sal, -3)/1000 Thousands
  2 FROM      emp;
```

14. Show all employees, with a manager that has a salary that is higher than 2000. Show the following data: employee name, manager name, manager salary, and salary grade of the manager.

```
SQL> SELECT    e.ename, m.ename manager, m.sal, s.grade
  2 FROM      emp e, emp m, salgrade s
  3 WHERE     e.mgr = m.empno
  4 AND      m.sal BETWEEN s.losal AND s.hisal
  5 AND      m.sal > 2000;
```

15. Show the employee with the highest salary grouped by their manager. Order the list on manager number.

```
SQL> SELECT    e.mgr, e.ename, e.sal
2 FROM        emp e
3 WHERE       (e.mgr, e.sal) = ANY
4             (SELECT mgr, MAX(sal)
5             FROM emp
6             WHERE mgr IS NOT NULL
7             GROUP BY mgr)
8 ORDER BY   e.mgr;
```

16. Show the department number and the lowest salary of the department with the highest average salary.

```
SQL> SELECT    deptno, MIN(sal)
2 FROM        emp
3 GROUP BY    deptno
4 HAVING      AVG(sal) =
5             (SELECT MAX(AVG(sal))
6             FROM emp
7             GROUP BY deptno);
```

17. Show the department number, names and location of those departments where no salesman are working.

```
SQL> SELECT    *
2 FROM        dept
3 WHERE       deptno NOT IN
4             (SELECT deptno
5             FROM emp
6             WHERE job = 'SALESMAN');
```

18. Show the department number, department name, and the number of employees working in that department for the department(s) that:

- a. Includes less than 4 employees

```
SQL> SELECT    d.deptno, d.dname, COUNT(*)
2 FROM        dept d, emp e
3 WHERE       d.deptno = e.deptno
4 GROUP BY    d.deptno, d.dname
5 HAVING      COUNT(*) < 4;
```



b. Has the maximum number of employees

```
SQL> SELECT      d.deptno, d.dname, COUNT(*)
 2 FROM          dept d, emp e
 3 WHERE         d.deptno = e.deptno
 4 GROUP BY     d.deptno, d.dname
 5 HAVING        COUNT(*) =
 6              (SELECT MAX(COUNT(*))
 7              FROM emp
 8              GROUP BY deptno);
```

c. Has the minimum number of employees

```
SQL> SELECT      d.deptno, d.dname, COUNT(*)
 2 FROM          dept d, emp e
 3 WHERE         d.deptno = e.deptno
 4 GROUP BY     d.deptno, d.dname
 5 HAVING        COUNT(*) =
 6              (SELECT MIN(COUNT(*))
 7              FROM emp
 8              GROUP BY deptno);
```

19. Show employee number, name, salary, department number, and the average salary of their department, for all employees.

```
SQL> SELECT      e.empno, e.ename, e.deptno, AVG(s.sal)
 2 FROM          emp e, emp s
 3 WHERE         e.deptno = s.deptno
 4 GROUP BY     e.empno, e.ename, e.deptno;
```

20. Show all employees that have been hired on the same day on which the maximum number of employees has been hired.

```
SQL> SELECT      ename, TO_CHAR(hiredate, 'DAY') day
 2 FROM          emp
 3 WHERE         TO_CHAR(hiredate, 'Day') =
 4              (SELECT TO_CHAR(hiredate, 'Day')
 5              FROM          emp
 6              GROUP BY     TO_CHAR(hiredate, 'Day')
 7              HAVING        COUNT(*) =
 8              (SELECT MAX(COUNT(*))
 9              FROM          emp
10              GROUP BY TO_CHAR(hiredate, 'Day')));
```

21. Create a birthday overview based on the hiredate of the employees. Sort the birthdays in ascending order.

```
SQL> SELECT   ename, TO_CHAR(hiredate, 'Month DD') BIRTHDAY
2  FROM      emp
3  ORDER BY  TO_CHAR(hiredate, 'DDD');
```

22. Show the department number, name, the number of employees and the average salary of all department, together with the names, salaries, and jobs of the employees working in each department.

```
SQL> SELECT   d.deptno, d.dname, count(e1.empno) employees,
2             NVL(TO_CHAR(AVG(e1.sal), '99999.99'),
3             'No average' ) avg_sal,
4             e2.ename, e2.sal, e2.job
5  FROM      dept d, emp e1, emp e2
6  WHERE     d.deptno = e1.deptno(+)
7  AND      d.deptno = e2.deptno(+)
8  GROUP BY d.deptno, d.dname, e2.ename, e2.sal, e2.job
9  ORDER BY d.deptno, employees;
```

---

**Table  
Descriptions  
and Data**

---

## EMP Table

SQL> DESCRIBE emp

Name	Null?	Type
EMPNO	NOT NULL	NUMBER(4)
ENAME		VARCHAR2(10)
JOB		VARCHAR2(9)
MGR		NUMBER(4)
HIREDATE		DATE
SAL		NUMBER(7,2)
COMM		NUMBER(7,2)
DEPTNO	NOT NULL	NUMBER(2)

SQL> SELECT \* FROM emp;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT		17-NOV-81	5000		10
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7900	JAMES	CLERK	7698	03-DEC-81	950		30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7369	SMITH	CLERK	7902	17-DEC-80	800		20
7788	SCOTT	ANALYST	7566	09-DEC-82	3000		20
7876	ADAMS	CLERK	7788	12-JAN-83	1100		20
7934	MILLER	CLERK	7782	23-JAN-82	1300		10

## DEPT Table

```
SQL> DESCRIBE dept
```

Name	Null?	Type
-----	-----	-----
DEPTNO	NOT NULL	NUMBER(2)
DNAME		VARCHAR2(14)
LOC		VARCHAR2(13)

```
SQL> SELECT * FROM dept;
```

DEPTNO	DNAME	LOC
-----	-----	-----
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

## SALGRADE Table

```
SQL> DESCRIBE salgrade
```

Name	Null?	Type
-----	-----	-----
GRADE		NUMBER
LOSAL		NUMBER
HISAL		NUMBER

```
SQL> SELECT * FROM salgrade;
```

GRADE	LOSAL	HISAL
-----	-----	-----
1	700	1200
2	1201	1400
3	1401	2000
4	2001	3000
5	3001	9999

## ORD Table

SQL> DESCRIBE ord

Name	Null?	Type
ORDID	NOT NULL	NUMBER(4)
ORDERDATE		DATE
COMMPLAN		VARCHAR2(1)
CUSTID	NOT NULL	NUMBER(6)
SHIPDATE		DATE
TOTAL		NUMBER(8,2)

SQL> SELECT \* FROM ord;

ORDID	ORDERDATE	C	CUSTID	SHIPDATE	TOTAL
610	07-JAN-87	A	101	08-JAN-87	101.4
611	11-JAN-87	B	102	11-JAN-87	45
612	15-JAN-87	C	104	20-JAN-87	5860
601	01-MAY-86	A	106	30-MAY-86	2.4
602	05-JUN-86	B	102	20-JUN-86	56
604	15-JUN-86	A	106	30-JUN-86	698
605	14-JUL-86	A	106	30-JUL-86	8324
606	14-JUL-86	A	100	30-JUL-86	3.4
609	01-AUG-86	B	100	15-AUG-86	97.5
607	18-JUL-86	C	104	18-JUL-86	5.6
608	25-JUL-86	C	104	25-JUL-86	35.2
603	05-JUN-86		102	05-JUN-86	224
620	12-MAR-87		100	12-MAR-87	4450
613	01-FEB-87		108	01-FEB-87	6400
614	01-FEB-87		102	05-FEB-87	23940
616	03-FEB-87		103	10-FEB-87	764
619	22-FEB-87		104	04-FEB-87	1260
617	05-FEB-87		105	03-MAR-87	46370
615	01-FEB-87		107	06-FEB-87	710
618	15-FEB-87	A	102	06-MAR-87	3510.5
621	15-MAR-87	A	100	01-JAN-87	730

## PRODUCT Table

```
SQL> DESCRIBE product
```

Name	Null?	Type
PRODID	NOT NULL	NUMBER(6)
DESCRIP		VARCHAR2(30)

```
SQL> SELECT * FROM product;
```

PRODID	DESCRIP
100860	ACE TENNIS RACKET I
100861	ACE TENNIS RACKET II
100870	ACE TENNIS BALLS-3 PACK
100871	ACE TENNIS BALLS-6 PACK
100890	ACE TENNIS NET
101860	SP TENNIS RACKET
101863	SP JUNIOR RACKET
102130	RH: "GUIDE TO TENNIS"
200376	SB ENERGY BAR-6 PACK
200380	SB VITA SNACK-6 PACK



## ITEM Table

SQL> DESCRIBE item

Name	Null?	Type
ORDID	NOT NULL	NUMBER(4)
ITEMID	NOT NULL	NUMBER(4)
PRODID		NUMBER(6)
ACTUALPRICE		NUMBER(8,2)
QTY		NUMBER(8)
ITEMTOT		NUMBER(8,2)

SQL> SELECT \* FROM item;

ORDID	ITEMID	PRODID	ACTUALPRICE	QTY	ITEMTOT
610	3	100890	58	1	58
611	1	100861	45	1	45
612	1	100860	30	100	3000
601	1	200376	2.4	1	2.4
602	1	100870	2.8	20	56
604	1	100890	58	3	174
604	2	100861	42	2	84
604	3	100860	44	10	440
603	2	100860	56	4	224
610	1	100860	35	1	35
610	2	100870	2.8	3	8.4
613	4	200376	2.2	200	440
614	1	100860	35	444	15540
614	2	100870	2.8	1000	2800
612	2	100861	40.5	20	810
612	3	101863	10	150	1500
620	1	100860	35	10	350
620	2	200376	2.4	1000	2400
620	3	102130	3.4	500	1700
613	1	100871	5.6	100	560
613	2	101860	24	200	4800
613	3	200380	4	150	600
619	3	102130	3.4	100	340
617	1	100860	35	50	1750
617	2	100861	45	100	4500
614	3	100871	5.6	1000	5600

*Continued on next page*

**ITEM Table (continued)**

ORDID	ITEMID	PRODID	ACTUALPRICE	QTY	ITEMTOT
616	1	100861	45	10	450
616	2	100870	2.8	50	140
616	3	100890	58	2	116
616	4	102130	3.4	10	34
616	5	200376	2.4	10	24
619	1	200380	4	100	400
619	2	200376	2.4	100	240
615	1	100861	45	4	180
607	1	100871	5.6	1	5.6
615	2	100870	2.8	100	280
617	3	100870	2.8	500	1400
617	4	100871	5.6	500	2800
617	5	100890	58	500	29000
617	6	101860	24	100	2400
617	7	101863	12.5	200	2500
617	8	102130	3.4	100	340
617	9	200376	2.4	200	480
617	10	200380	4	300	1200
609	2	100870	2.5	5	12.5
609	3	100890	50	1	50
618	1	100860	35	23	805
618	2	100861	45.11	50	2255.5
618	3	100870	45	10	450
621	1	100861	45	10	450
621	2	100870	2.8	100	280
615	3	100871	5	50	250
608	1	101860	24	1	24
608	2	100871	5.6	2	11.2
609	1	100861	35	1	35
606	1	102130	3.4	1	3.4
605	1	100861	45	100	4500
605	2	100870	2.8	500	1400
605	3	100890	58	5	290
605	4	101860	24	50	1200
605	5	101863	9	100	900
605	6	102130	3.4	10	34
612	4	100871	5.5	100	550
619	4	100871	5.6	50	280

## CUSTOMER Table

```
SQL> DESCRIBE customer
```

Name	Null?	Type
-----	-----	-----
CUSTID	NOT NULL	NUMBER(6)
NAME		VARCHAR2(45)
ADDRESS		VARCHAR2(40)
CITY		VARCHAR2(30)
STATE		VARCHAR2(2)
ZIP		VARCHAR2(9)
AREA		NUMBER(3)
PHONE		VARCHAR2(9)
REPID	NOT NULL	NUMBER(4)
CREDITLIMIT		NUMBER(9,2)
COMMENTS		LONG

# CUSTOMER Table (continued)

SQL> SELECT \* FROM customer;

CUSTID	NAME	ADDRESS
100	JOCKSPORTS	345 VIEWRIDGE
101	TKB SPORT SHOP	490 BOLI RD.
102	VOLLYRITE	9722 HAMILTON
103	JUST TENNIS	HILLVIEW MALL
104	EVERY MOUNTAIN	574 SURREY RD.
105	K + T SPORTS	3476 EL PASEO
106	SHAPE UP	908 SEQUOIA
107	WOMENS SPORTS	VALCO VILLAGE
108	NORTH WOODS HEALTH AND FITNESS SUPPLY CENTER	98 LONE PINE WAY

CITY	ST	ZIP	AREA	PHONE	REPID	CREDITLIMIT
BELMONT	CA	96711	415	598-6603	7844	5000
REDWOOD CITY	CA	94061	415	368-1223	7521	10000
BURLINGAME	CA	95133	415	644-3341	7654	7000
BURLINGAME	CA	97544	415	677-9312	7521	3000
CUPERTINO	CA	93301	408	996-2323	7499	10000
SANTA CLARA	CA	91003	408	376-9965	7844	5000
FALO ALTO	CA	94301	415	364-9777	7521	6000
SUNNYVALE	CA	93301	408	967-4398	7499	10000
HIBBING	MN	55649	612	566-9123	7844	8000

## COMMENTS

Very friendly people to work with -- sales rep likes to be called Mike.  
 Rep called 5/8 about change in order - contact shipping.  
 Company doing heavy promotion beginning 10/89. Prepare for large orders during winter.  
 Contact rep about new line of tennis rackets.  
 Customer with high market share (23%) due to aggressive advertising.  
 Tends to order large amounts of merchandise at once. Accounting is considering raising their credit limit.  
 Support intensive. Orders small amounts (< 800) of merchandise at a time.  
 First sporting goods store geared exclusively towards women. Unusual promotional style.

## PRICE Table

SQL> DESCRIBE price

Name	Null?	Type
PRODID	NOT NULL	NUMBER(6)
STDPRICE		NUMBER(8,2)
MINPRICE		NUMBER(8,2)
STARTDATE		DATE
ENDDATE		DATE

SQL> SELECT \* FROM price;

PRODID	STDPRICE	MINPRICE	STARTDATE	ENDDATE
100871	4.8	3.2	01-JAN-85	01-DEC-85
100890	58	46.4	01-JAN-85	
100890	54	40.5	01-JUN-84	31-MAY-84
100860	35	28	01-JUN-86	
100860	32	25.6	01-JAN-86	31-MAY-86
100860	30	24	01-JAN-85	31-DEC-85
100861	45	36	01-JUN-86	
100861	42	33.6	01-JAN-86	31-MAY-86
100861	39	31.2	01-JAN-85	31-DEC-85
100870	2.8	2.4	01-JAN-86	
100870	2.4	1.9	01-JAN-85	01-DEC-85
100871	5.6	4.8	01-JAN-86	
101860	24	18	15-FEB-85	
101863	12.5	9.4	15-FEB-85	
102130	3.4	2.8	18-AUG-85	
200376	2.4	1.75	15-NOV-86	
200380	4	3.2	15-NOV-86	

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