

DATABASE ADMINISTRATION

Lab 9 – PL / SQL cursors, procedures, functions

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1. Create a simple stored procedure FIRST that displays the value of the downloaded argument in the form:

The value of the parameter was:

Call the procedure from the anonymous block.

```
SQL> CREATE OR REPLACE PROCEDURE FIRST (param NUMBER) IS
  2 BEGIN
  3 dbms_output.put_line('The value of the parameter was: ' || param);
  4 END;
  5 /
```

Procedure created.

```
SQL> CALL FIRST(10);
```

The value of the parameter was: 10

Call completed.

```
SQL> EXECUTE FIRST(10);
```

The value of the parameter was: 10

PL/SQL procedure successfully completed.

```
SQL> █
```

2. Create a SECOND procedure with the following properties:

- three arguments: the input string NULL by default, the output string, and the input number with an initial value of 1 assigned.
- declared non-zero local character variable with 'SECOND' assigned.
- a return string is a string consisting of: the value of a local variable, an input string, and an input number

Create an anonymous block with the following properties, in which it will be located:

- - o declared local string
 - o called procedure SECOND with parameters: 'CZESC' and local string
 - o writing out a local string
 - o called procedure SECOND with parameters: to the input string 'CZESC', to the input number 2, to the output string local variable
 - o writing out a local string
 - o called procedure SECOND with local string parameter
 - o writing out a local string

```
SQL> CREATE OR REPLACE PROCEDURE SECOND(input_string IN VARCHAR := null, output_string OUT VARCHAR, input_num IN NUMBER
:= 1) IS
  2 loc VARCHAR(10) := 'SECOND';
  3 BEGIN
  4 output_string := loc || ' ' || input_string || ' ' || input_num;
  5 END;
  6 /
```

Procedure created.

```

SQL> DECLARE
  2  local VARCHAR(100);
  3  BEGIN
  4  SECOND('CZESC', local);
  5  dbms_output.put_line(local);
  6  SECOND('CZESC', local, 2);
  7  dbms_output.put_line(local);
  8  SECOND(local, local);
  9  dbms_output.put_line(local);
 10  END;
 11  /
SECOND CZESC 1
SECOND CZESC 2
SECOND SECOND CZESC 2 1

```

PL/SQL procedure successfully completed.

SQL>

3. Create a procedure that increases the pay for a given department argument by the percentage specified by the second argument. Enter the default values for the arguments, as well as the appropriate comment to the Journal table (a table with three columns: ID, date changed, and change message). In the procedure, update the placa attribute and insert a message into the log in the form: In the section an increase was introduced about ... percent) If the department number is zero, raise the pay of all employees and insert the appropriate message into the Journal table.

```

SQL> CREATE TABLE journal (ID NUMBER(5), change_date DATE, message VARCHAR(300));

```

Table created.

```

SQL> CREATE OR REPLACE PROCEDURE THIRD (
  2  section_num hr.employees.department_id%TYPE := 10, percentage NUMBER := 10) IS
  3  BEGIN
  4  IF section_num = 0 THEN
  5  UPDATE hr.employees SET salary = salary + salary * (percentage/100);
  6  INSERT INTO journal VALUES (section_num, (
  7  SELECT current_date FROM dual), 'Each employee received a ' || percentage || 'percent increase');
  8  ELSE
  9  UPDATE hr.employees SET salary = salary + salary * (percentage/100) WHERE department_id = section_num;
 10  INSERT INTO journal VALUES (section_num, (
 11  SELECT current_date FROM dual), 'In the section ' || section_num || 'an increase was introduced about ' || percentage || ' percent');
 12  END IF;
 13  END;
 14  /

```

Procedure created.

4. Define a function that returns the percentage of the department in the company's budget. Invoke it inside a query that results in two columns: id_dzialu, udzial_w_budziecie

```

SQL> CREATE OR REPLACE FUNCTION FOURTH(section_num hr.employees.department_id%TYPE)
  2  RETURN NUMBER IS
  3  comp_budget NUMBER;
  4  whole_budget NUMBER;
  5  BEGIN
  6  SELECT SUM(salary) INTO comp_budget FROM hr.employees WHERE department_id = section_num;
  7  SELECT SUM(salary) INTO whole_budget FROM hr.employees;
  8  RETURN 100 * comp_budget / whole_budget;
  9  END;
 10  /

```

Function created.

```
SQL> SELECT department_id, FOURTH(department_id) FROM hr.departments;
```

```
DEPARTMENT_ID FOURTH(DEPARTMENT_ID)
```

```
-----  
10             .649819495  
20             2.75812274  
30             3.6101083  
40             .953068592  
50             22.599278  
60             4.1732852  
70             1.45848375  
80             43.9855596  
90             8.3898917  
100            7.46570397  
110            2.94584838
```

```
DEPARTMENT_ID FOURTH(DEPARTMENT_ID)
```

```
-----  
120  
130  
140  
150  
160  
170  
180  
190  
200  
210  
220
```

```
DEPARTMENT_ID FOURTH(DEPARTMENT_ID)
```

```
-----  
230  
240  
250  
260  
270
```

```
27 rows selected.
```

```
SQL>
```

5. Create a procedure to monitor that employees have not exceeded the average earnings in their positions. To do this:

- Disable the SECURE_EMPLOYEES trigger (if any)
- In the EMPLOYEES table, add a column EXCEED_AVGSAL that stores up to three characters with the default value of NO. Include the CHECK constraint, which allows you to enter only two possible values, YES and NO.
- Write a CHECK_AVGSAL procedure that will check that each employee's salary does not exceed the average salary for his position. The average salary for a position is calculated as the arithmetic mean of the minimum and maximum wages in the JOBS table. If it exceeds, the value in column EXCEED_AVGSAL of the EMPLOYEES table should be set to YES, otherwise - NO. Use the cursor with the FOR UPDATE clause (check the documentation for its description and application).
- Follow the procedure and verify that it works correctly.

```
SQL> ALTER TRIGGER SECURE_EMPLOYEES DISABLE;
```

Trigger altered.

```
SQL>
```

```
SQL> ALTER TABLE hr.employees
```

```
2 ADD EXCEED_AVGSAL VARCHAR(3) DEFAULT 'NO'
```

```
3 CONSTRAINT EXCEED_AVGSAL_CHECK CHECK (EXCEED_AVGSAL = 'YES' OR EXCEED_AVGSAL = 'NO');
```

Table altered.

```
SQL> █
```

```
SQL> CREATE OR REPLACE PROCEDURE CHECK_AVGSAL IS
```

```
2 CURSOR cur IS
```

```
3 SELECT employee_id, job_id, salary FROM hr.employees FOR UPDATE OF EXCEED_AVGSAL;
```

```
4 empl_id hr.employees.employee_id%TYPE;
```

```
5 pos_id hr.employees.job_id%TYPE;
```

```
6 sal hr.employees.salary%TYPE;
```

```
7 avgsal hr.employees.salary%TYPE;
```

```
8 BEGIN
```

```
9 OPEN cur;
```

```
10 LOOP
```

```
11 FETCH cur INTO empl_id, pos_id, sal;
```

```
12 EXIT WHEN cur%NOTFOUND;
```

```
13 SELECT (min_salary + max_salary) / 2 INTO avgsal FROM hr.jobs WHERE pos_id = job_id;
```

```
14 IF (sal > avgsal) THEN
```

```
15 UPDATE hr.employees SET EXCEED_AVGSAL = 'YES' WHERE empl_id = employee_id;
```

```
16 ELSE
```

```
17 UPDATE hr.employees SET EXCEED_AVGSAL = 'NO' WHERE empl_id = employee_id;
```

```
18 END IF;
```

```
19 END LOOP;
```

```
20 CLOSE cur;
```

```
21 END;
```

```
22 /
```

Procedure created.

```
SQL> █
```

```
SQL> SELECT * FROM hr.employees;
```

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
100	Steven	King	SKING	515.123.4567	17-JUN-87	AD_PRES	24100
101	Neena	Kochhar	NKOCHHAR	515.123.4568	21-SEP-89	AD_VP	17000
102	Lex	De Haan					

LDEHAAN	515.123.4569	13-JAN-93 AD_VP	17000
100	90 NO		
103 Alexander	Hunold		
AHUNOLD	590.423.4567	03-JAN-90 IT_PROG	9100
EMPLOYEE_ID	FIRST_NAME	LAST_NAME	
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC
102	60 NO		
104 Bruce	Ernst		
BERNST	590.423.4568	21-MAY-91 IT_PROG	6000
103	60 NO		
105 David	Austin		
EMPLOYEE_ID	FIRST_NAME	LAST_NAME	
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC
DAUSTIN	590.423.4569	25-JUN-97 IT_PROG	4800
103	60 NO		
106 Valli	Pataballa		
VPATABAL	590.423.4560	05-FEB-98 IT_PROG	4800
103	60 NO		
EMPLOYEE_ID	FIRST_NAME	LAST_NAME	
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC
107 Diana	Lorentz		
DLORENTZ	590.423.5567	07-FEB-99 IT_PROG	4200
103	60 NO		
108 Nancy	Greenberg		
NGREENBE	515.124.4569	17-AUG-94 FI_MGR	12100
101	100 NO		
EMPLOYEE_ID	FIRST_NAME	LAST_NAME	
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC
109 Daniel	Faviet		
DFAVIET	515.124.4169	16-AUG-94 FI_ACCOUNT	9000
108	100 NO		
110 John	Chen		
JCHEN	515.124.4269	28-SEP-97 FI_ACCOUNT	8200
EMPLOYEE_ID	FIRST_NAME	LAST_NAME	

```

-----
EMAIL          PHONE_NUMBER    HIRE_DATE JOB_ID    SALARY
-----
COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC
-----
      108      100 NO

    111 Ismael      Sciarra
ISCIARRA      515.124.4369    30-SEP-97 FI_ACCOUNT    7700
      108      100 NO

    112 Jose Manuel    Urman

EMPLOYEE_ID FIRST_NAME    LAST_NAME
-----
EMAIL          PHONE_NUMBER    HIRE_DATE JOB_ID    SALARY
-----
COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC
-----
JMURMAN      515.124.4469    07-MAR-98 FI_ACCOUNT    7800
      108      100 NO

    113 Luis      Popp
LPOPP      515.124.4567    07-DEC-99 FI_ACCOUNT    6900
      108      100 NO

EMPLOYEE_ID FIRST_NAME    LAST_NAME
-----
EMAIL          PHONE_NUMBER    HIRE_DATE JOB_ID    SALARY
-----
COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC
-----
    114 Den      Raphaely
DRAPHEAL      515.127.4561    07-DEC-94 PU_MAN    11100
      100      30 NO

    115 Alexander    Khoo
AKHOO      515.127.4562    18-MAY-95 PU_CLERK    3100
      114      30 NO

EMPLOYEE_ID FIRST_NAME    LAST_NAME
-----
EMAIL          PHONE_NUMBER    HIRE_DATE JOB_ID    SALARY
-----
COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC
-----
    116 Shelli    Baida
SBIDA      515.127.4563    24-DEC-97 PU_CLERK    2900
      114      30 NO

    117 Sigal      Tobias
STOBIAS      515.127.4564    24-JUL-97 PU_CLERK    2800

EMPLOYEE_ID FIRST_NAME    LAST_NAME
-----
EMAIL          PHONE_NUMBER    HIRE_DATE JOB_ID    SALARY
-----
COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC
-----
      114      30 NO

```

118	Guy	Himuro		
GHIMURO		515.127.4565	15-NOV-98 PU_CLERK	2600
114		30 NO		

119	Karen	Colmenares		
-----	-------	------------	--	--

EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC	
KCOLMENA		515.127.4566	10-AUG-99 PU_CLERK	2500
114		30 NO		

120	Matthew	Weiss		
MWEISS		650.123.1234	18-JUL-96 ST_MAN	8000
100		50 NO		

EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC	

121	Adam	Fripp		
AFRIPP		650.123.2234	10-APR-97 ST_MAN	8300
100		50 NO		

122	Payam	Kaufling		
PKAUFLIN		650.123.3234	01-MAY-95 ST_MAN	7900
100		50 NO		

EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC	

123	Shanta	Vollman		
SVOLLMAN		650.123.4234	10-OCT-97 ST_MAN	6500
100		50 NO		

124	Kevin	Mourgos		
KMOURGOS		650.123.5234	16-NOV-99 ST_MAN	5800

EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC	
100		50 NO		

125	Julia	Nayer		
JNAYER		650.124.1214	16-JUL-97 ST_CLERK	3200
120		50 NO		

126	Irene	Mikkilineni		
-----	-------	-------------	--	--

EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
-------------	------------	-----------	--	--

EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC

IMIKKILI 650.124.1224 28-SEP-98 ST_CLERK 2700
120 50 NO

127 James Landry
JLANDRY 650.124.1334 14-JAN-99 ST_CLERK 2400
120 50 NO

EMPLOYEE_ID FIRST_NAME LAST_NAME

EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC

128 Steven Markle
SMARKLE 650.124.1434 08-MAR-00 ST_CLERK 2200
120 50 NO

129 Laura Bissot
LBISSOT 650.124.5234 20-AUG-97 ST_CLERK 3300
121 50 NO

EMPLOYEE_ID FIRST_NAME LAST_NAME

EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC

130 Mozhe Atkinson
MATKINSO 650.124.6234 30-OCT-97 ST_CLERK 2800
121 50 NO

131 James Marlow
JAMRLOW 650.124.7234 16-FEB-97 ST_CLERK 2500

EMPLOYEE_ID FIRST_NAME LAST_NAME

EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC

121 50 NO

132 TJ Olson
TJOLSON 650.124.8234 10-APR-99 ST_CLERK 2100
121 50 NO

133 Jason Mallin

EMPLOYEE_ID FIRST_NAME LAST_NAME

EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC

JMALLIN 650.127.1934 14-JUN-96 ST_CLERK 3300
122 50 NO

134 Michael Rogers
MROGERS 650.127.1834 26-AUG-98 ST_CLERK 2900
122 50 NO

EMPLOYEE_ID FIRST_NAME LAST_NAME

EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC

135 Ki Gee
KGEE 650.127.1734 12-DEC-99 ST_CLERK 2400
122 50 NO

136 Hazel Philtanker
HPHILTAN 650.127.1634 06-FEB-00 ST_CLERK 2200
122 50 NO

EMPLOYEE_ID FIRST_NAME LAST_NAME

EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC

137 Renske Ladwig
RLADWIG 650.121.1234 14-JUL-95 ST_CLERK 3600
123 50 NO

138 Stephen Stiles
SSTILES 650.121.2034 26-OCT-97 ST_CLERK 3200

EMPLOYEE_ID FIRST_NAME LAST_NAME

EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC

123 50 NO

139 John Seo
JSEO 650.121.2019 12-FEB-98 ST_CLERK 2700
123 50 NO

140 Joshua Patel

EMPLOYEE_ID FIRST_NAME LAST_NAME

EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC

JPATEL 650.121.1834 06-APR-98 ST_CLERK 2500
123 50 NO

141 Tenna Rajs
TRAJS 650.121.8009 17-OCT-95 ST_CLERK 3500
124 50 NO

EMPLOYEE_ID FIRST_NAME LAST_NAME

EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC

142 Curtis Davies
CDAVIES 650.121.2994 29-JAN-97 ST_CLERK 3100
124 50 NO

143 Randall Matos
RMATOS 650.121.2874 15-MAR-98 ST_CLERK 2600
124 50 NO

EMPLOYEE_ID FIRST_NAME LAST_NAME

EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC

144 Peter Vargas
PVARGAS 650.121.2004 09-JUL-98 ST_CLERK 2500
124 50 NO

145 John Russell
JRUSSEL 011.44.1344.429268 01-OCT-96 SA_MAN 14100

EMPLOYEE_ID FIRST_NAME LAST_NAME

EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC

.4 100 80 NO

146 Karen Partners
KPARTNER 011.44.1344.467268 05-JAN-97 SA_MAN 13500
.3 100 80 NO

147 Alberto Errazuriz

EMPLOYEE_ID FIRST_NAME LAST_NAME

EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC

AERRAZUR 011.44.1344.429278 10-MAR-97 SA_MAN 12000
.3 100 80 NO

148 Gerald Cambrault
GCAMBRAU 011.44.1344.619268 15-OCT-99 SA_MAN 11000
.3 100 80 NO

EMPLOYEE_ID FIRST_NAME LAST_NAME

EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC

149 Eleni Zlotkey
EZLOTKEY 011.44.1344.429018 29-JAN-00 SA_MAN 10500

.2	100	80	NO		
150 Peter	Tucker				
PTUCKER	011.44.1344.129268	30-JAN-97	SA_REP	10000	
.3	145	80	NO		
EMPLOYEE_ID	FIRST_NAME	LAST_NAME			
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC		
151 David	Bernstein				
DBERNSTE	011.44.1344.345268	24-MAR-97	SA_REP	9500	
.25	145	80	NO		
152 Peter	Hall				
PHALL	011.44.1344.478968	20-AUG-97	SA_REP	9000	
EMPLOYEE_ID	FIRST_NAME	LAST_NAME			
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC		
.25	145	80	NO		
153 Christopher	Olsen				
COLSEN	011.44.1344.498718	30-MAR-98	SA_REP	8000	
.2	145	80	NO		
154 Nanette	Cambrault				
EMPLOYEE_ID	FIRST_NAME	LAST_NAME			
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC		
NCAMBRAU	011.44.1344.987668	09-DEC-98	SA_REP	7500	
.2	145	80	NO		
155 Oliver	Tuvault				
OTUVAULT	011.44.1344.486508	23-NOV-99	SA_REP	7000	
.15	145	80	NO		
EMPLOYEE_ID	FIRST_NAME	LAST_NAME			
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC		
156 Janette	King				
JKING	011.44.1345.429268	30-JAN-96	SA_REP	10000	
.35	146	80	NO		
157 Patrick	Sully				
PSULLY	011.44.1345.929268	04-MAR-96	SA_REP	9500	
.35	146	80	NO		
EMPLOYEE_ID	FIRST_NAME	LAST_NAME			

```

-----
EMAIL          PHONE_NUMBER    HIRE_DATE JOB_ID    SALARY
-----
COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC
-----

    158 Allan      McEwen
AMCEWEN        011.44.1345.829268 01-AUG-96 SA_REP    9000
    .35    146      80 NO

    159 Lindsey    Smith
LSMITH         011.44.1345.729268 10-MAR-97 SA_REP    8000

EMPLOYEE_ID FIRST_NAME    LAST_NAME
-----
EMAIL          PHONE_NUMBER    HIRE_DATE JOB_ID    SALARY
-----
COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC
-----

    .3    146      80 NO

    160 Louise     Doran
LDORAN         011.44.1345.629268 15-DEC-97 SA_REP    7500
    .3    146      80 NO

    161 Sarath     Sewall

EMPLOYEE_ID FIRST_NAME    LAST_NAME
-----
EMAIL          PHONE_NUMBER    HIRE_DATE JOB_ID    SALARY
-----
COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC
-----

SSEWALL        011.44.1345.529268 03-NOV-98 SA_REP    7000
    .25    146      80 NO

    162 Clara      Vishney
CVISHNEY       011.44.1346.129268 11-NOV-97 SA_REP    10500
    .25    147      80 NO

EMPLOYEE_ID FIRST_NAME    LAST_NAME
-----
EMAIL          PHONE_NUMBER    HIRE_DATE JOB_ID    SALARY
-----
COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC
-----

    163 Danielle   Greene
DGREENE        011.44.1346.229268 19-MAR-99 SA_REP    9500
    .15    147      80 NO

    164 Mattea     Marvins
MMARVINS       011.44.1346.329268 24-JAN-00 SA_REP    7200
    .1    147      80 NO

EMPLOYEE_ID FIRST_NAME    LAST_NAME
-----
EMAIL          PHONE_NUMBER    HIRE_DATE JOB_ID    SALARY
-----
COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC
-----

    165 David      Lee

```

DLEE	011.44.1346.529268	23-FEB-00	SA_REP	6800
.1 147	80 NO			
166 Sundar	Ande			
SANDE	011.44.1346.629268	24-MAR-00	SA_REP	6400
EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC	
.1 147	80 NO			
167 Amit	Banda			
ABANDA	011.44.1346.729268	21-APR-00	SA_REP	6200
.1 147	80 NO			
168 Lisa	Ozer			
EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC	
LOZER	011.44.1343.929268	11-MAR-97	SA_REP	11500
.25 148	80 NO			
169 Harrison	Bloom			
HBLOOM	011.44.1343.829268	23-MAR-98	SA_REP	10000
.2 148	80 NO			
EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC	
170 Tayler	Fox			
TFOX	011.44.1343.729268	24-JAN-98	SA_REP	9600
.2 148	80 NO			
171 William	Smith			
WSMITH	011.44.1343.629268	23-FEB-99	SA_REP	7400
.15 148	80 NO			
EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC	
172 Elizabeth	Bates			
EBATES	011.44.1343.529268	24-MAR-99	SA_REP	7300
.15 148	80 NO			
173 Sundita	Kumar			
SKUMAR	011.44.1343.329268	21-APR-00	SA_REP	6100
EMPLOYEE_ID	FIRST_NAME	LAST_NAME		

```

-----
EMAIL          PHONE_NUMBER    HIRE_DATE JOB_ID    SALARY
-----
COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC
-----
      .1      148      80 NO

      174 Ellen      Abel
EABEL          011.44.1644.429267 11-MAY-96 SA_REP      11000
      .3      149      80 NO

      175 Alyssa      Hutton

EMPLOYEE_ID FIRST_NAME      LAST_NAME
-----
EMAIL          PHONE_NUMBER    HIRE_DATE JOB_ID    SALARY
-----
COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC
-----
AHUTTON          011.44.1644.429266 19-MAR-97 SA_REP      8800
      .25      149      80 NO

      176 Jonathon      Taylor
JTAYLOR         011.44.1644.429265 24-MAR-98 SA_REP      8600
      .2      149      80 NO

EMPLOYEE_ID FIRST_NAME      LAST_NAME
-----
EMAIL          PHONE_NUMBER    HIRE_DATE JOB_ID    SALARY
-----
COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC
-----
      177 Jack      Livingston
JLIVINGS        011.44.1644.429264 23-APR-98 SA_REP      8400
      .2      149      80 NO

      178 Kimberely      Grant
KGRANT          011.44.1644.429263 24-MAY-99 SA_REP      7000
      .15      149      NO

EMPLOYEE_ID FIRST_NAME      LAST_NAME
-----
EMAIL          PHONE_NUMBER    HIRE_DATE JOB_ID    SALARY
-----
COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC
-----

      179 Charles      Johnson
CJOHNSON        011.44.1644.429262 04-JAN-00 SA_REP      6200
      .1      149      80 NO

      180 Winston      Taylor
WTAYLOR         650.507.9876      24-JAN-98 SH_CLERK      3200

EMPLOYEE_ID FIRST_NAME      LAST_NAME
-----
EMAIL          PHONE_NUMBER    HIRE_DATE JOB_ID    SALARY
-----
COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC
-----

      120      50 NO

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181 Jean	Fleur			
JFLEAUR	650.507.9877	23-FEB-98 SH_CLERK	3100	
120	50 NO			
182 Martha	Sullivan			
EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC	
MSULLIVA	650.507.9878	21-JUN-99 SH_CLERK	2500	
120	50 NO			
183 Girard	Geoni			
GGEONI	650.507.9879	03-FEB-00 SH_CLERK	2800	
120	50 NO			
EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC	
184 Nandita	Sarchand			
NSARCHAN	650.509.1876	27-JAN-96 SH_CLERK	4200	
121	50 NO			
185 Alexis	Bull			
ABULL	650.509.2876	20-FEB-97 SH_CLERK	4100	
121	50 NO			
EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC	
186 Julia	Dellinger			
JDELLING	650.509.3876	24-JUN-98 SH_CLERK	3400	
121	50 NO			
187 Anthony	Cabrio			
ACABRIO	650.509.4876	07-FEB-99 SH_CLERK	3000	
EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC	
121	50 NO			
188 Kelly	Chung			
KCHUNG	650.505.1876	14-JUN-97 SH_CLERK	3800	
122	50 NO			
189 Jennifer	Dilly			
EMPLOYEE_ID	FIRST_NAME	LAST_NAME		

EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC

JDILLY 650.505.2876 13-AUG-97 SH_CLERK 3600
122 50 NO

190 Timothy Gates
TGATES 650.505.3876 11-JUL-98 SH_CLERK 2900
122 50 NO

EMPLOYEE_ID FIRST_NAME LAST_NAME

EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC

191 Randall Perkins
RPERKINS 650.505.4876 19-DEC-99 SH_CLERK 2500
122 50 NO

192 Sarah Bell
SBELL 650.501.1876 04-FEB-96 SH_CLERK 4000
123 50 NO

EMPLOYEE_ID FIRST_NAME LAST_NAME

EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC

193 Britney Everett
BEVERETT 650.501.2876 03-MAR-97 SH_CLERK 3900
123 50 NO

194 Samuel McCain
SMCCAIN 650.501.3876 01-JUL-98 SH_CLERK 3200

EMPLOYEE_ID FIRST_NAME LAST_NAME

EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC

123 50 NO

195 Vance Jones
VJONES 650.501.4876 17-MAR-99 SH_CLERK 2800
123 50 NO

196 Alana Walsh

EMPLOYEE_ID FIRST_NAME LAST_NAME

EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC

AWALSH 650.507.9811 24-APR-98 SH_CLERK 3100
124 50 NO

197 Kevin	Feeney			
KFEENEY	650.507.9822	23-MAY-98 SH_CLERK	3000	
124	50 NO			
EMPLOYEE_ID FIRST_NAME LAST_NAME				

EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC				

198 Donald	OConnell			
DOCONNEL	650.507.9833	21-JUN-99 SH_CLERK	2600	
124	50 NO			
199 Douglas	Grant			
DGRANT	650.507.9844	13-JAN-00 SH_CLERK	2600	
124	50 NO			
EMPLOYEE_ID FIRST_NAME LAST_NAME				

EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC				

200 Jennifer	Whalen			
JWHALEN	515.123.4444	17-SEP-87 AD_ASST	4500	
101	10 NO			
201 Michael	Hartstein			
MHARTSTE	515.123.5555	17-FEB-96 MK_MAN	13100	
EMPLOYEE_ID FIRST_NAME LAST_NAME				

EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC				

100	20 NO			
202 Pat	Fay			
PFAY	603.123.6666	17-AUG-97 MK_REP	6000	
201	20 NO			
203 Susan	Mavris			
EMPLOYEE_ID FIRST_NAME LAST_NAME				

EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC				

SMAVRIS	515.123.7777	07-JUN-94 HR_REP	6600	
101	40 NO			
204 Hermann	Baer			
HBAER	515.123.8888	07-JUN-94 PR_REP	10100	
101	70 NO			
EMPLOYEE_ID FIRST_NAME LAST_NAME				

EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC

205 Shelley Higgins
SHIGGINS 515.123.8080 07-JUN-94 AC_MGR 12100
101 110 NO

206 William Gietz
WGIETZ 515.123.8181 07-JUN-94 AC_ACCOUNT 8300
205 110 NO

EMPLOYEE_ID FIRST_NAME LAST_NAME

EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC

107 rows selected.

SQL> EXECUTE CHECK_AVGSAL;

PL/SQL procedure successfully completed.

SQL> SELECT * FROM hr.employees;

EMPLOYEE_ID FIRST_NAME LAST_NAME

EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC

100 Steven King
SKING 515.123.4567 17-JUN-87 AD_PRES 24100
90 NO

101 Neena Kochhar
NKOCHHAR 515.123.4568 21-SEP-89 AD_VP 17000
100 90 NO

EMPLOYEE_ID FIRST_NAME LAST_NAME

EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC

102 Lex De Haan
LDEHAAN 515.123.4569 13-JAN-93 AD_VP 17000
100 90 NO

103 Alexander Hunold
AHUNOLD 590.423.4567 03-JAN-90 IT_PROG 9100

EMPLOYEE_ID FIRST_NAME LAST_NAME

EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC

102	60	YES		
104 Bruce	Ernst			
BERNST	590.423.4568	21-MAY-91 IT_PROG	6000	
103	60	NO		
105 David	Austin			
EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC	
DAUSTIN	590.423.4569	25-JUN-97 IT_PROG	4800	
103	60	NO		
106 Valli	Pataballa			
VPATABAL	590.423.4560	05-FEB-98 IT_PROG	4800	
103	60	NO		
EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC	
107 Diana	Lorentz			
DLORENTZ	590.423.5567	07-FEB-99 IT_PROG	4200	
103	60	NO		
108 Nancy	Greenberg			
NGREENBE	515.124.4569	17-AUG-94 FI_MGR	12100	
101	100	NO		
EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC	
109 Daniel	Faviet			
DFAVIET	515.124.4169	16-AUG-94 FI_ACCOUNT	9000	
108	100	YES		
110 John	Chen			
JCHEN	515.124.4269	28-SEP-97 FI_ACCOUNT	8200	
EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC	
108	100	YES		
111 Ismael	Sciarra			
ISCIARRA	515.124.4369	30-SEP-97 FI_ACCOUNT	7700	
108	100	YES		
112 Jose Manuel	Urman			

EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC	
114 Den	Raphaely			
DRAPHEAL	515.127.4561	07-DEC-94	PU_MAN	11100
100	30 NO			
115 Alexander	Khoo			
AKHOO	515.127.4562	18-MAY-95	PU_CLERK	3100
114	30 NO			

EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC	
116	Shelli	Baida		
SBAIDA	515.127.4563	24-DEC-97	PU_CLERK	2900
114	30 NO			
117	Sigal	Tobias		
STOBIAS	515.127.4564	24-JUL-97	PU CLERK	2800

EMPLOYEE_ID	FIRST_NAME	LAST_NAME			
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID		SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC		
114	30	NO			
118	Guy	Himuro			
GHIMURO	515.127.4565	15-NOV-98	PU_CLERK		2600
114	30	NO			
119	Karen	Colmenares			

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC
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KCOLMENA	515.127.4566	10-AUG-99 PU_CLERK	2500
114	30 NO		

120 Matthew Weiss			
MWEISS	650.123.1234	18-JUL-96 ST_MAN	8000
100	50 YES		

EMPLOYEE_ID	FIRST_NAME	LAST_NAME
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EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
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COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC
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121 Adam Fripp			
AFRIPP	650.123.2234	10-APR-97 ST_MAN	8300
100	50 YES		

122 Payam Kaufling			
PKAUFLIN	650.123.3234	01-MAY-95 ST_MAN	7900
100	50 YES		

EMPLOYEE_ID	FIRST_NAME	LAST_NAME
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EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
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COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC
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123 Shanta Vollman			
SVOLLMAN	650.123.4234	10-OCT-97 ST_MAN	6500
100	50 NO		

124 Kevin Mourgos			
KMOURGOS	650.123.5234	16-NOV-99 ST_MAN	5800

EMPLOYEE_ID	FIRST_NAME	LAST_NAME
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EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
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COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC
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100	50 NO
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125 Julia Nayer			
JNAYER	650.124.1214	16-JUL-97 ST_CLERK	3200
120	50 NO		

126 Irene Mikkilineni

EMPLOYEE_ID	FIRST_NAME	LAST_NAME
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EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
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COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC
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IMIKKILI	650.124.1224	28-SEP-98 ST_CLERK	2700
120	50 NO		

127 James Landry			
JLANDRY	650.124.1334	14-JAN-99 ST_CLERK	2400
120	50 NO		

EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC	
130	Mozhe	Atkinson		
MATKINSO	650.124.6234	30-OCT-97	ST_CLERK	2800
121	50 NO			
131	James	Marlow		
JAMRLOW	650.124.7234	16-FEB-97	ST_CLERK	2500

EMPLOYEE_ID	FIRST_NAME	LAST_NAME			
121	50	NO			
132	TJ	Olson			
TJOLSON	650.124.8234	10-APR-99	ST_CLERK	2100	
121	50	NO			
133	Jason	Mallin			

EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
11	Scott	Tyler	19-04-77	4100
12	Adams	Jessie	13-07-79	4300
13	King	John	17-12-79	5100
14	DeMott	Walter	28-09-82	3100
15	Turner	Ramona	29-03-76	3150
16	Chavez	Guillermo	01-09-88	3800
17	Cooper	Michael	09-08-82	3900
18	Ford	David	04-11-76	4900
19	Buchanan	Vern	10-03-71	5000
20	Miles	Les	29-09-82	4800
21	Armstrong	Steve	17-09-79	4600
22	Wheeler	John	16-09-81	3700
23	Perkins	Samuel	08-12-72	4500
24	Porter	Jean	08-12-76	4400
25	Daly	Len	15-08-79	3600
26	Kimura	Yoshiaki	10-09-80	3900
27	Greenberg	Martha	12-09-81	3800
28	Fletcher	Tina	11-07-82	3500
29	Burton	Doreen	14-07-82	3600
30	Shelley	Greg	16-04-83	3700
31	Kimura	Yoshiaki	10-09-80	3900
32	Greenberg	Martha	12-09-81	3800
33	Fletcher	Tina	11-07-82	3500
34	Burton	Doreen	14-07-82	3600
35	Shelley	Greg	16-04-83	3700
36	Kimura	Yoshiaki	10-09-80	3900
37	Greenberg	Martha	12-09-81	3800
38	Fletcher	Tina	11-07-82	3500
39	Burton	Doreen	14-07-82	3600
40	Shelley	Greg	16-04-83	3700
41	Kimura	Yoshiaki	10-09-80	3900
42	Greenberg	Martha	12-09-81	3800
43	Fletcher	Tina	11-07-82	3500
44	Burton	Doreen	14-07-82	3600
45	Shelley	Greg	16-04-83	3700
46	Kimura	Yoshiaki	10-09-80	3900
47	Greenberg	Martha	12-09-81	3800
48	Fletcher	Tina	11-07-82	3500
49	Burton	Doreen	14-07-82	3600
50	Shelley	Greg	16-04-83	3700
51	Kimura	Yoshiaki	10-09-80	3900
52	Greenberg	Martha	12-09-81	3800
53	Fletcher	Tina	11-07-82	3500
54	Burton	Doreen	14-07-82	3600
55	Shelley	Greg	16-04-83	3700
56	Kimura	Yoshiaki	10-09-80	3900
57	Greenberg	Martha	12-09-81	3800
58	Fletcher	Tina	11-07-82	3500
59	Burton	Doreen	14-07-82	3600
60	Shelley	Greg	16-04-83	3700
61	Kimura	Yoshiaki	10-09-80	3900
62	Greenberg	Martha	12-09-81	3800
63	Fletcher	Tina	11-07-82	3500
64	Burton	Doreen	14-07-82	3600
65	Shelley	Greg	16-04-83	3700
66	Kimura	Yoshiaki	10-09-80	3900
67	Greenberg	Martha	12-09-81	3800
68	Fletcher	Tina	11-07-82	3500
69	Burton	Doreen	14-07-82	3600
70	Shelley	Greg	16-04-83	3700
71	Kimura	Yoshiaki	10-09-80	3900
72	Greenberg	Martha	12-09-81	3800
73	Fletcher	Tina	11-07-82	3500
74	Burton	Doreen	14-07-82	3600
75	Shelley	Greg	16-04-83	3700
76	Kimura	Yoshiaki	10-09-80	3900
77	Greenberg	Martha	12-09-81	3800
78	Fletcher	Tina	11-07-82	3500
79	Burton	Doreen	14-07-82	3600
80	Shelley	Greg	16-04-83	3700
81	Kimura	Yoshiaki	10-09-80	3900
82	Greenberg	Martha	12-09-81	3800
83	Fletcher	Tina	11-07-82	3500
84	Burton	Doreen	14-0	

EMPLOYEE_ID	FIRST_NAME	LAST_NAME			
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC		

135 Ki	Gee			
KGEE	650.127.1734	12-DEC-99 ST_CLERK	2400	
122	50 NO			
136 Hazel	Philtanker			
HPHILTAN	650.127.1634	06-FEB-00 ST_CLERK	2200	
122	50 NO			
EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC	
137 Renske	Ladwig			
RLADWIG	650.121.1234	14-JUL-95 ST_CLERK	3600	
123	50 YES			
138 Stephen	Stiles			
SSTILES	650.121.2034	26-OCT-97 ST_CLERK	3200	
EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC	
123	50 NO			
139 John	Seo			
JSEO	650.121.2019	12-FEB-98 ST_CLERK	2700	
123	50 NO			
140 Joshua	Patel			
EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC	
JPATEL	650.121.1834	06-APR-98 ST_CLERK	2500	
123	50 NO			
141 Tenna	Rajs			
TRAJS	650.121.8009	17-OCT-95 ST_CLERK	3500	
124	50 NO			
EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC	
142 Curtis	Davies			
CDAVIES	650.121.2994	29-JAN-97 ST_CLERK	3100	
124	50 NO			
143 Randall	Matos			
RMATOS	650.121.2874	15-MAR-98 ST_CLERK	2600	
124	50 NO			

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC
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144	Peter	Vargas	PVARGAS	650.121.2004	09-JUL-98	ST_CLERK	2500				
124				50 NO							

145	John	Russell	JRUSSEL	011.44.1344.429268	01-OCT-96	SA_MAN	14100				
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EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC
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.4	100	80	NO								
146	Karen	Partners	KPARTNER	011.44.1344.467268	05-JAN-97	SA_MAN	13500				
.3	100	80	NO								

147	Alberto	Errazuriz									
AERRAZUR				011.44.1344.429278	10-MAR-97	SA_MAN	12000				
.3	100	80	NO								
148	Gerald	Cambrault	GCAMBRAU	011.44.1344.619268	15-OCT-99	SA_MAN	11000				
.3	100	80	NO								

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC
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149	Eleni	Zlotkey	EZLOTKEY	011.44.1344.429018	29-JAN-00	SA_MAN	10500				
.2	100	80	NO								
150	Peter	Tucker	PTUCKER	011.44.1344.129268	30-JAN-97	SA_REP	10000				
.3	145	80	YES								

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC
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151 David Bernstein
DBERNSTE 011.44.1344.345268 24-MAR-97 SA_REP 9500
.25 145 80 YES

152 Peter Hall
PHALL 011.44.1344.478968 20-AUG-97 SA_REP 9000

EMPLOYEE_ID FIRST_NAME LAST_NAME

EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC

.25 145 80 NO

153 Christopher Olsen
COLSEN 011.44.1344.498718 30-MAR-98 SA_REP 8000
.2 145 80 NO

154 Nanette Cambraut

EMPLOYEE_ID FIRST_NAME LAST_NAME

EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC

NCAMBRAU 011.44.1344.987668 09-DEC-98 SA_REP 7500
.2 145 80 NO

155 Oliver Tuvault
OTUVVAULT 011.44.1344.486508 23-NOV-99 SA_REP 7000
.15 145 80 NO

EMPLOYEE_ID FIRST_NAME LAST_NAME

EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC

156 Janette King
JKING 011.44.1345.429268 30-JAN-96 SA_REP 10000
.35 146 80 YES

157 Patrick Sully
PSULLY 011.44.1345.929268 04-MAR-96 SA_REP 9500
.35 146 80 YES

EMPLOYEE_ID FIRST_NAME LAST_NAME

EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY

COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC

158 Allan McEwen
AMCEWEN 011.44.1345.829268 01-AUG-96 SA_REP 9000
.35 146 80 NO

159 Lindsey Smith
LSMITH 011.44.1345.729268 10-MAR-97 SA_REP 8000

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC
160	Louise	Doran	LDORAN	011.44.1345.629268	15-DEC-97	SA_REP	7500	.3	146	80	NO
161	Sarath	Sewall	SSEWALL	011.44.1345.529268	03-NOV-98	SA_REP	7000	.25	146	80	NO
162	Clara	Vishney	CVISHNEY	011.44.1346.129268	11-NOV-97	SA_REP	10500	.25	147	80	YES
163	Danielle	Greene	DGREENE	011.44.1346.229268	19-MAR-99	SA_REP	9500	.15	147	80	YES
164	Mattea	Marvins	MMARVINS	011.44.1346.329268	24-JAN-00	SA_REP	7200	.1	147	80	NO
165	David	Lee	DLEE	011.44.1346.529268	23-FEB-00	SA_REP	6800	.1	147	80	NO
166	Sundar	Ande	SANDE	011.44.1346.629268	24-MAR-00	SA_REP	6400				

.1	147	80	NO		
167 Amit	Banda				
ABANDA	011.44.1346.729268	21-APR-00	SA_REP	6200	
.1	147	80	NO		
168 Lisa	Ozer				
EMPLOYEE_ID	FIRST_NAME	LAST_NAME			
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC		
LOZER	011.44.1343.929268	11-MAR-97	SA_REP	11500	
.25	148	80	YES		
169 Harrison	Bloom				
HBLOOM	011.44.1343.829268	23-MAR-98	SA_REP	10000	
.2	148	80	YES		
EMPLOYEE_ID	FIRST_NAME	LAST_NAME			
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC		
170 Tayler	Fox				
TFOX	011.44.1343.729268	24-JAN-98	SA_REP	9600	
.2	148	80	YES		
171 William	Smith				
WSMITH	011.44.1343.629268	23-FEB-99	SA_REP	7400	
.15	148	80	NO		
EMPLOYEE_ID	FIRST_NAME	LAST_NAME			
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC		
172 Elizabeth	Bates				
EBATES	011.44.1343.529268	24-MAR-99	SA_REP	7300	
.15	148	80	NO		
173 Sundita	Kumar				
SKUMAR	011.44.1343.329268	21-APR-00	SA_REP	6100	
EMPLOYEE_ID	FIRST_NAME	LAST_NAME			
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC		
.1	148	80	NO		
174 Ellen	Abel				
EABEL	011.44.1644.429267	11-MAY-96	SA_REP	11000	
.3	149	80	YES		
175 Alyssa	Hutton				

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
177	Jack	Livingston	JLIVINGS	011.44.1644.429264	23-APR-98	SA_REP	8400
.2	149	80 NO					
178	Kimberely	Grant	KGRANT	011.44.1644.429263	24-MAY-99	SA_REP	7000
.15	149	NO					

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
179	Charles	Johnson	CJOHNSON	011.44.1644.429262	04-JAN-00	SA_REP	6200
.1	149	80 NO					
180	Winston	Taylor	WTAYLOR	650.507.9876	24-JAN-98	SH_CLERK	3200

EMPLOYEE_ID	FIRST_NAME	LAST_NAME			
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID		SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC		
120	50 NO				
181 Jean	Fleur				
JFLEAUR	650.507.9877	23-FEB-98	SH_CLERK		3100
120	50 NO				
182 Martha	Sullivan				

EMPLOYEE_ID	FIRST_NAME	LAST_NAME			
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC		

MSULLIVA	650.507.9878	21-JUN-99 SH_CLERK	2500
120	50 NO		
183 Girard	Geoni		
GGEONI	650.507.9879	03-FEB-00 SH_CLERK	2800
120	50 NO		
EMPLOYEE_ID	FIRST_NAME	LAST_NAME	
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC
184 Nandita	Sarchand		
NSARCHAN	650.509.1876	27-JAN-96 SH_CLERK	4200
121	50 YES		
185 Alexis	Bull		
ABULL	650.509.2876	20-FEB-97 SH_CLERK	4100
121	50 YES		
EMPLOYEE_ID	FIRST_NAME	LAST_NAME	
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC
186 Julia	Dellinger		
JDELLING	650.509.3876	24-JUN-98 SH_CLERK	3400
121	50 NO		
187 Anthony	Cabrio		
ACABRIO	650.509.4876	07-FEB-99 SH_CLERK	3000
EMPLOYEE_ID	FIRST_NAME	LAST_NAME	
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC
121	50 NO		
188 Kelly	Chung		
KCHUNG	650.505.1876	14-JUN-97 SH_CLERK	3800
122	50 NO		
189 Jennifer	Dilly		
EMPLOYEE_ID	FIRST_NAME	LAST_NAME	
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC
JDILLY	650.505.2876	13-AUG-97 SH_CLERK	3600
122	50 NO		
190 Timothy	Gates		
TGATES	650.505.3876	11-JUL-98 SH_CLERK	2900
122	50 NO		

EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
191	Randall	Perkins		
RPERKINS	650.505.4876	19-DEC-99	SH_CLERK	2500
122	50 NO			
192	Sarah	Bell		
SBELL	650.501.1876	04-FEB-96	SH_CLERK	4000
123	50 NO			

EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
193	Britney	Everett		
BEVERETT	650.501.2876	03-MAR-97	SH_CLERK	3900
123	50 NO			
194	Samuel	McCain		
SMCCAIN	650.501.3876	01-JUL-98	SH_CLERK	3200

EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
123	50 NO			
195	Vance	Jones		
VJONES	650.501.4876	17-MAR-99	SH_CLERK	2800
123	50 NO			
196	Alana	Walsh		

EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
AWALSH	650.507.9811	24-APR-98	SH_CLERK	3100
124	50 NO			
197	Kevin	Feeney		
KFEENEY	650.507.9822	23-MAY-98	SH_CLERK	3000
124	50 NO			

EMPLOYEE_ID	FIRST_NAME	LAST_NAME		

198 Donald	OConnell			
DOCONNEL	650.507.9833	21-JUN-99 SH_CLERK	2600	
124	50 NO			
199 Douglas	Grant			
DGRANT	650.507.9844	13-JAN-00 SH_CLERK	2600	
124	50 NO			
EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC	
200 Jennifer	Whalen			
JWHALEN	515.123.4444	17-SEP-87 AD_ASST	4500	
101	10 NO			
201 Michael	Hartstein			
MHARTSTE	515.123.5555	17-FEB-96 MK_MAN	13100	
EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC	
100	20 YES			
202 Pat	Fay			
PFAY	603.123.6666	17-AUG-97 MK_REP	6000	
201	20 NO			
203 Susan	Mavris			
EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC	
SM AVRIS	515.123.7777	07-JUN-94 HR_REP	6600	
101	40 YES			
204 Hermann	Baer			
HBAER	515.123.8888	07-JUN-94 PR_REP	10100	
101	70 YES			
EMPLOYEE_ID	FIRST_NAME	LAST_NAME		
EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	EXC	
205 Shelley	Higgins			
SHIGGINS	515.123.8080	07-JUN-94 AC_MGR	12100	
101	110 NO			
206 William	Gietz			
WG IETZ	515.123.8181	07-JUN-94 AC_ACCOUNT	8300	
205	110 YES			


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EMPLOYEE_ID FIRST_NAME      LAST_NAME
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EMAIL          PHONE_NUMBER    HIRE_DATE JOB_ID    SALARY
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COMMISSION_PCT MANAGER_ID DEPARTMENT_ID EXC
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107 rows selected.

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