# Table Descriptions and Data

**Entity Relationship Diagram**

**HR**
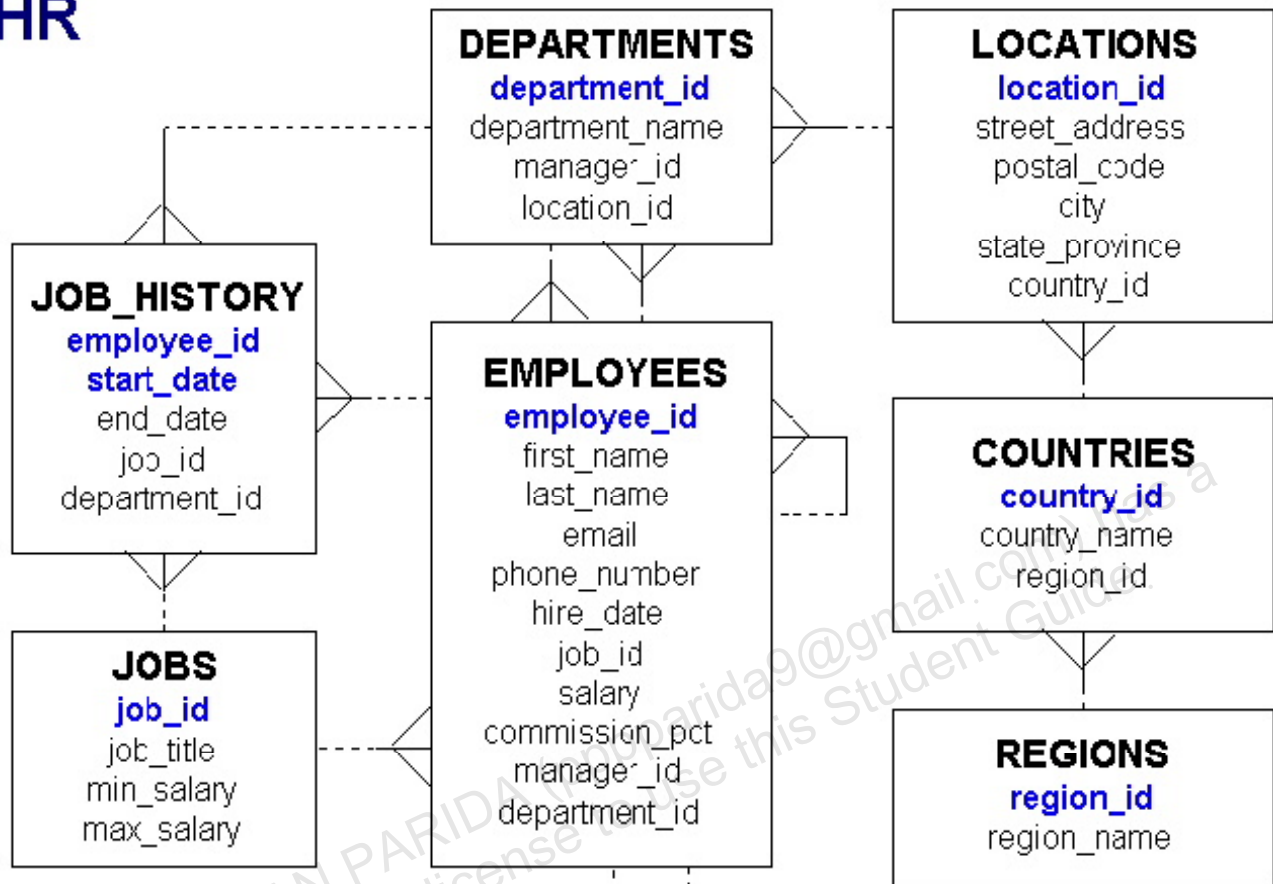
## Tables in the Schema

```
SELECT * FROM tab;
```

| TNAME | TABTYPE | CLUSTERID |
|---|---|---|
| COUNTRIES | TABLE | |
| DEPARTMENTS | TABLE | |
| EMPLOYEES | TABLE | |
| EMP_DETAILS_VIEW | VIEW | |
| JOBS | TABLE | |
| JOB_HISTORY | TABLE | |
| LOCATIONS | TABLE | |
| REGIONS | TABLE | |

8 rows selected.

## REGIONS Table

DESCRIBE regions

| Name | Null? | Type |
|------|-------|------|
| REGION_ID | NOT NULL | NUMBER |
| REGION_NAME | | VARCHAR2(25) |

SELECT * FROM regions;

| REGION_ID | REGION_NAME |
|-----------|-------------|
| 1 | Europe |
| 2 | Americas |
| 3 | Asia |
| 4 | Middle East and Africa |

**Oracle Database 10g: Develop PL/SQL Program Units   B-4**

### COUNTRIES Table

DESCRIBE countries

| Name | Null? | Type |
|------|-------|------|
| COUNTRY_ID | NOT NULL | CHAR(2) |
| COUNTRY_NAME | | VARCHAR2(40) |
| REGION_ID | | NUMBER |

SELECT * FROM countries;

| CO | COUNTRY_NAME | REGION_ID |
|----|--------------|-----------|
| AR | Argentina | 2 |
| AU | Australia | 3 |
| BE | Belgium | 1 |
| BR | Brazil | 2 |
| CA | Canada | 2 |
| CH | Switzerland | 1 |
| CN | China | 3 |
| DE | Germany | 1 |
| DK | Denmark | 1 |
| EG | Egypt | 4 |
| FR | France | 1 |
| HK | HongKong | 3 |
| IL | Israel | 4 |
| IN | India | 3 |
| IT | Italy | 1 |
| JP | Japan | 3 |
| KW | Kuwait | 4 |
| MX | Mexico | 2 |
| NG | Nigeria | 4 |
| NL | Netherlands | 1 |
| SG | Singapore | 3 |
| UK | United Kingdom | 1 |
| US | United States of America | 2 |
| ZM | Zambia | 4 |
| ZW | Zimbabwe | 4 |

25 rows selected.

**Oracle Database 10*g*: Develop PL/SQL Program Units   B-5**

**LOCATIONS Table**

DESCRIBE locations;

| Name | Null? | Type |
|------|-------|------|
| LOCATION_ID | NOT NULL | NUMBER(4) |
| STREET_ADDRESS | | VARCHAR2(40) |
| POSTAL_CODE | | VARCHAR2(12) |
| CITY | NOT NULL | VARCHAR2(30) |
| STATE_PROVINCE | | VARCHAR2(25) |
| COUNTRY_ID | | CHAR(2) |

SELECT * FROM locations;

| LOCATION_ID | STREET_ADDRESS | POSTAL_CODE | CITY | STATE_PROVINCE | CO |
|-------------|----------------|-------------|------|----------------|-----|
| 1000 | 1297 Via Cola di Rie | 00989 | Roma | | IT |
| 1100 | 93091 Calle della Testa | 10934 | Venice | | IT |
| 1200 | 2017 Shinjuku-ku | 1689 | Tokyo | Tokyo Prefecture | JP |
| 1300 | 9450 Kamiya-cho | 6823 | Hiroshima | | JP |
| 1400 | 2014 Jabberwocky Rd | 26192 | Southlake | Texas | US |
| 1500 | 2011 Interiors Blvd | 99236 | South San Francisco | California | US |
| 1600 | 2007 Zagora St | 50090 | South Brunswick | New Jersey | US |
| 1700 | 2004 Charade Rd | 98199 | Seattle | Washington | US |
| 1800 | 147 Spadina Ave | M5V 2L7 | Toronto | Ontario | CA |
| 1900 | 6092 Boxwood St | YSW 9T2 | Whitehorse | Yukon | CA |
| 2000 | 40-5-12 Laogianggen | 190518 | Beijing | | CN |
| 2100 | 1298 Vileparle (E) | 490231 | Bombay | Maharashtra | IN |
| LOCATION_ID | STREET_ADDRESS | POSTAL_CODE | CITY | STATE_PROVINCE | CO |
| 2400 | 8204 Arthur St | | London | | UK |
| 2500 | Magdalen Centre, The Oxford Science Park | OX9 9ZB | Oxford | Oxford | UK |
| 2600 | 9702 Chester Road | 09629850293 | Stretford | Manchester | UK |
| 2700 | Schwanthalerstr. 7031 | 80925 | Munich | Bavaria | DE |
| 2800 | Rua Frei Caneca 1360 | 01307-002 | Sao Paulo | Sao Paulo | BR |
| 2900 | 20 Rue des Corps-Saints | 1730 | Geneva | Geneve | CH |
| 3000 | Murtenstrasse 921 | 3095 | Bern | BE | CH |
| 3100 | Pieter Breughelstraat 837 | 3029SK | Utrecht | Utrecht | NL |
| 3200 | Mariano Escobedo 9991 | 11932 | Mexico City | Distrito Federal, | MX |

23 rows selected.

**Oracle Database 10*g*: Develop PL/SQL Program Units   B-6**

## DEPARTMENTS Table

DESCRIBE departments

| Name | Null? | Type |
|---|---|---|
| DEPARTMENT_ID | NOT NULL | NUMBER(4) |
| DEPARTMENT_NAME | NOT NULL | VARCHAR2(30) |
| MANAGER_ID | | NUMBER(6) |
| LOCATION_ID | | NUMBER(4) |

SELECT * FROM departments;

| DEPARTMENT_ID | DEPARTMENT_NAME | MANAGER_ID | LOCATION_ID |
|---|---|---|---|
| 10 | Administration | 200 | 1700 |
| 20 | Marketing | 201 | 1800 |
| 30 | Purchasing | 114 | 1700 |
| 40 | Human Resources | 203 | 2400 |
| 50 | Shipping | 121 | 1500 |
| 60 | IT | 103 | 1400 |
| 70 | Public Relations | 204 | 2700 |
| 80 | Sales | 145 | 2500 |
| 90 | Executive | 100 | 1700 |
| 100 | Finance | 108 | 1700 |
| 110 | Accounting | 205 | 1700 |
| 120 | Treasury | | 1700 |
| 130 | Corporate Tax | | 1700 |
| 140 | Control And Credit | | 1700 |
| DEPARTMENT_ID | DEPARTMENT_NAME | MANAGER_ID | LOCATION_ID |
| 150 | Shareholder Services | | 1700 |
| 160 | Benefits | | 1700 |
| 170 | Manufacturing | | 1700 |
| 180 | Construction | | 1700 |
| 190 | Contracting | | 1700 |
| 200 | Operations | | 1700 |
| 210 | IT Support | | 1700 |
| 220 | NOC | | 1700 |
| 230 | IT Helpdesk | | 1700 |
| 240 | Government Sales | | 1700 |
| 250 | Retail Sales | | 1700 |
| 260 | Recruiting | | 1700 |
| 270 | Payroll | | 1700 |

27 rows selected.

**JOBS Table**

DESCRIBE jobs

| Name | Null? | Type |
|---|---|---|
| JOB_ID | NOT NULL | VARCHAR2(10) |
| JOB_TITLE | NOT NULL | VARCHAR2(35) |
| MIN_SALARY | | NUMBER(6) |
| MAX_SALARY | | NUMBER(6) |

SELECT * FROM jobs;

| JOB_ID | JOB_TITLE | MIN_SALARY | MAX_SALARY |
|---|---|---|---|
| AD_PRES | President | 20000 | 40000 |
| AD_VP | Administration Vice President | 15000 | 30000 |
| AD_ASST | Administration Assistant | 3000 | 6000 |
| FI_MGR | Finance Manager | 8200 | 16000 |
| FI_ACCOUNT | Accountant | 4200 | 9000 |
| AC_MGR | Accounting Manager | 8200 | 16000 |
| AC_ACCOUNT | Public Accountant | 4200 | 9000 |
| SA_MAN | Sales Manager | 10000 | 20000 |
| SA_REP | Sales Representative | 6000 | 12000 |
| PU_MAN | Purchasing Manager | 8000 | 15000 |
| PU_CLERK | Purchasing Clerk | 2500 | 5500 |
| ST_MAN | Stock Manager | 5500 | 8500 |
| ST_CLERK | Stock Clerk | 2000 | 5000 |
| SH_CLERK | Shipping Clerk | 2500 | 5500 |
| IT_PROG | Programmer | 4000 | 10000 |
| MK_MAN | Marketing Manager | 9000 | 15000 |
| MK_REP | Marketing Representative | 4000 | 9000 |
| HR_REP | Human Resources Representative | 4000 | 9000 |
| PR_REP | Public Relations Representative | 4500 | 10500 |

19 rows selected.

**Oracle Database 10g: Develop PL/SQL Program Units   B-8**

**EMPLOYEES** Table

```
DESCRIBE employees
```

| Name | Null? | Type |
|---|---|---|
| EMPLOYEE_ID | NOT NULL | NUMBER(6) |
| FIRST_NAME | | VARCHAR2(20) |
| LAST_NAME | NOT NULL | VARCHAR2(25) |
| EMAIL | NOT NULL | VARCHAR2(25) |
| PHONE_NUMBER | | VARCHAR2(20) |
| HIRE_DATE | NOT NULL | DATE |
| JOB_ID | NOT NULL | VARCHAR2(10) |
| SALARY | | NUMBER(8,2) |
| COMMISSION_PCT | | NUMBER(2,2) |
| MANAGER_ID | | NUMBER(6) |
| DEPARTMENT_ID | | NUMBER(4) |

**Oracle Database 10*g*: Develop PL/SQL Program Units   B-9**

**EMPLOYEES Table**

The headings for the `COMMISSION_PCT`, `MANAGER_ID`, and `DEPARTMENT_ID` columns are set to `COMM`, `MGRID`, and `DEPTID` in the following screenshot, to fit the table values across the page.

```
SELECT * FROM employees;
```

| EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL | PHONE_NUMBER | HIRE_DATE | JOB_ID | SALARY | comm | mgrid | deptid |
|---|---|---|---|---|---|---|---|---|---|---|
| 100 | Steven | King | SKING | 515.123.4567 | 17-JUN-87 | AD_PRES | 24000 | | | 90 |
| 101 | Neena | Kochhar | NKOCHHAR | 515.123.4568 | 21-SEP-89 | AD_VP | 17000 | | 100 | 90 |
| 102 | Lex | De Haan | LDEHAAN | 515.123.4569 | 13-JAN-93 | AD_VP | 17000 | | 100 | 90 |
| 103 | Alexander | Hunold | AHUNOLD | 590.423.4567 | 03-JAN-90 | IT_PROG | 9000 | | 102 | 60 |
| 104 | Bruce | Ernst | BERNST | 590.423.4568 | 21-MAY-91 | IT_PROG | 6000 | | 103 | 60 |
| 105 | David | Austin | DAUSTIN | 590.423.4569 | 25-JUN-97 | IT_PROG | 4800 | | 103 | 60 |
| 106 | Valli | Pataballa | VPATABAL | 590.423.4560 | 05-FEB-98 | IT_PROG | 4800 | | 103 | 60 |
| 107 | Diana | Lorentz | DLORENTZ | 590.423.5567 | 07-FEB-99 | IT_PROG | 4200 | | 103 | 60 |
| 108 | Nancy | Greenberg | NGREENBE | 515.124.4569 | 17-AUG-94 | FI_MGR | 12000 | | 101 | 100 |
| 109 | Daniel | Faviet | DFAVIET | 515.124.4169 | 16-AUG-94 | FI_ACCOUNT | 9000 | | 108 | 100 |
| 110 | John | Chen | JCHEN | 515.124.4269 | 28-SEP-97 | FI_ACCOUNT | 8200 | | 108 | 100 |
| 111 | Ismael | Sciarra | ISCIARRA | 515.124.4369 | 30-SEP-97 | FI_ACCOUNT | 7700 | | 108 | 100 |
| 112 | Jose Manuel | Urman | JMURMAN | 515.124.4469 | 07-MAR-98 | FI_ACCOUNT | 7800 | | 108 | 100 |
| 113 | Luis | Popp | LPOPP | 515.124.4567 | 07-DEC-99 | FI_ACCOUNT | 6900 | | 108 | 100 |
| EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL | PHONE_NUMBER | HIRE_DATE | JOB_ID | SALARY | comm | mgrid | deptid |
| 114 | Den | Raphaely | DRAPHEAL | 515.127.4561 | 07-DEC-94 | PU_MAN | 11000 | | 100 | 30 |
| 115 | Alexander | Khoo | AKHOO | 515.127.4562 | 18-MAY-95 | PU_CLERK | 3100 | | 114 | 30 |
| 116 | Shelli | Baida | SBAIDA | 515.127.4563 | 24-DEC-97 | PU_CLERK | 2900 | | 114 | 30 |
| 117 | Sigal | Tobias | STOBIAS | 515.127.4564 | 24-JUL-97 | PU_CLERK | 2800 | | 114 | 30 |
| 118 | Guy | Himuro | GHIMURO | 515.127.4565 | 15-NOV-98 | PU_CLERK | 2600 | | 114 | 30 |
| 119 | Karen | Colmenares | KCOLMENA | 515.127.4566 | 10-AUG-99 | PU_CLERK | 2500 | | 114 | 30 |
| 120 | Matthew | Weiss | MWEISS | 650.123.1234 | 18-JUL-96 | ST_MAN | 8000 | | 100 | 50 |
| 121 | Adam | Fripp | AFRIPP | 650.123.2234 | 10-APR-97 | ST_MAN | 8200 | | 100 | 50 |
| 122 | Payam | Kaufling | PKAUFLIN | 650.123.3234 | 01-MAY-95 | ST_MAN | 7900 | | 100 | 50 |
| 123 | Shanta | Vollman | SVOLLMAN | 650.123.4234 | 10-OCT-97 | ST_MAN | 6500 | | 100 | 50 |
| 124 | Kevin | Mourgos | KMOURGOS | 650.123.5234 | 16-NOV-99 | ST_MAN | 5800 | | 100 | 50 |
| 125 | Julia | Nayer | JNAYER | 650.124.1214 | 16-JUL-97 | ST_CLERK | 3200 | | 120 | 50 |
| 126 | Irene | Mikkilineni | IMIKKILI | 650.124.1224 | 28-SEP-98 | ST_CLERK | 2700 | | 120 | 50 |
| 127 | James | Landry | JLANDRY | 650.124.1334 | 14-JAN-99 | ST_CLERK | 2400 | | 120 | 50 |

**Oracle Database 10g: Develop PL/SQL Program Units   B-10**

**EMPLOYEES Table (continued)**

| EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL | PHONE_NUMBER | HIRE_DATE | JOB_ID | SALARY | comm | mgrid | deptid |
|---|---|---|---|---|---|---|---|---|---|---|
| 128 | Steven | Markle | SMARKLE | 650.124.1434 | 08-MAR-00 | ST_CLERK | 2200 | | 120 | 50 |
| 129 | Laura | Bissot | LBISSOT | 650.124.5234 | 20-AUG-97 | ST_CLERK | 3300 | | 121 | 50 |
| 130 | Mozhe | Atkinson | MATKINSO | 650.124.6234 | 30-OCT-97 | ST_CLERK | 2800 | | 121 | 50 |
| 131 | James | Marlow | JAMRLOW | 650.124.7234 | 16-FEB-97 | ST_CLERK | 2500 | | 121 | 50 |
| 132 | TJ | Olson | TJOLSON | 650.124.8234 | 10-APR-99 | ST_CLERK | 2100 | | 121 | 50 |
| 133 | Jason | Mallin | JMALLIN | 650.127.1934 | 14-JUN-96 | ST_CLERK | 3300 | | 122 | 50 |
| 134 | Michael | Rogers | MROGERS | 650.127.1834 | 26-AUG-98 | ST_CLERK | 2900 | | 122 | 50 |
| 135 | Ki | Gee | KGEE | 650.127.1734 | 12-DEC-99 | ST_CLERK | 2400 | | 122 | 50 |
| 136 | Hazel | Philtanker | HPHILTAN | 650.127.1634 | 06-FEB-00 | ST_CLERK | 2200 | | 122 | 50 |
| 137 | Renske | Ladwig | RLADWIG | 650.121.1234 | 14-JUL-95 | ST_CLERK | 3600 | | 123 | 50 |
| 138 | Stephen | Stiles | SSTILES | 650.121.2034 | 26-OCT-97 | ST_CLERK | 3200 | | 123 | 50 |
| 139 | John | Seo | JSEO | 650.121.2019 | 12-FEB-98 | ST_CLERK | 2700 | | 123 | 50 |
| 140 | Joshua | Patel | JPATEL | 650.121.1834 | 06-APR-98 | ST_CLERK | 2500 | | 123 | 50 |
| 141 | Trenna | Rajs | TRAJS | 650.121.8009 | 17-OCT-95 | ST_CLERK | 3500 | | 124 | 50 |
| EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL | PHONE_NUMBER | HIRE_DATE | JOB_ID | SALARY | comm | mgrid | deptid |
| 142 | Curtis | Davies | CDAVIES | 650.121.2994 | 29-JAN-97 | ST_CLERK | 3100 | | 124 | 50 |
| 143 | Randall | Matos | RMATOS | 650.121.2874 | 15-MAR-98 | ST_CLERK | 2600 | | 124 | 50 |
| 144 | Peter | Vargas | PVARGAS | 650.121.2004 | 09-JUL-98 | ST_CLERK | 2500 | | 124 | 50 |
| 145 | John | Russell | JRUSSEL | 011.44.1344.429268 | 01-OCT-96 | SA_MAN | 14000 | .4 | 100 | 80 |
| 146 | Karen | Partners | KPARTNER | 011.44.1344.467268 | 05-JAN-97 | SA_MAN | 13500 | .3 | 100 | 80 |
| 147 | Alberto | Errazuriz | AERRAZUR | 011.44.1344.429278 | 10-MAR-97 | SA_MAN | 12000 | .3 | 100 | 80 |
| 148 | Gerald | Cambrault | GCAMBRAU | 011.44.1344.619268 | 15-OCT-99 | SA_MAN | 11000 | .3 | 100 | 80 |
| 149 | Eleni | Zlotkey | EZLOTKEY | 011.44.1344.429018 | 29-JAN-00 | SA_MAN | 10500 | .2 | 100 | 80 |
| 150 | Peter | Tucker | PTUCKER | 011.44.1344.129268 | 30-JAN-97 | SA_REP | 10000 | .3 | 145 | 80 |
| 151 | David | Bernstein | DBERNSTE | 011.44.1344.345268 | 24-MAR-97 | SA_REP | 9500 | .25 | 145 | 80 |
| 152 | Peter | Hall | PHALL | 011.44.1344.478968 | 20-AUG-97 | SA_REP | 9000 | .25 | 145 | 80 |
| 153 | Christopher | Olsen | COLSEN | 011.44.1344.498718 | 30-MAR-98 | SA_REP | 8000 | .2 | 145 | 80 |
| 154 | Nanette | Cambrault | NCAMBRAU | 011.44.1344.987668 | 09-DEC-98 | SA_REP | 7500 | .2 | 145 | 80 |
| 155 | Oliver | Tuvault | OTUVAULT | 011.44.1344.486508 | 23-NOV-99 | SA_REP | 7000 | .15 | 145 | 80 |
| EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL | PHONE_NUMBER | HIRE_DATE | JOB_ID | SALARY | comm | mgrid | deptid |
| 156 | Janette | King | JKING | 011.44.1345.429268 | 30-JAN-96 | SA_REP | 10000 | .35 | 146 | 80 |
| 157 | Patrick | Sully | PSULLY | 011.44.1345.929268 | 04-MAR-96 | SA_REP | 9500 | .35 | 146 | 80 |
| 158 | Allan | McEwen | AMCEWEN | 011.44.1345.829268 | 01-AUG-96 | SA_REP | 9000 | .35 | 146 | 80 |
| 159 | Lindsey | Smith | LSMITH | 011.44.1345.729268 | 10-MAR-97 | SA_REP | 8000 | .3 | 146 | 80 |
| 160 | Louise | Doran | LDORAN | 011.44.1345.629268 | 15-DEC-97 | SA_REP | 7500 | .3 | 146 | 80 |
| 161 | Sarath | Sewall | SSEWALL | 011.44.1345.529268 | 03-NOV-98 | SA_REP | 7000 | .25 | 146 | 80 |
| 162 | Clara | Vishney | CVISHNEY | 011.44.1346.129268 | 11-NOV-97 | SA_REP | 10500 | .25 | 147 | 80 |
| 163 | Danielle | Greene | DGREENE | 011.44.1346.229268 | 19-MAR-99 | SA_REP | 9500 | .15 | 147 | 80 |
| 164 | Mattea | Marvins | MMARVINS | 011.44.1346.329268 | 24-JAN-00 | SA_REP | 7200 | .1 | 147 | 80 |
| 165 | David | Lee | DLEE | 011.44.1346.529268 | 23-FEB-00 | SA_REP | 6800 | .1 | 147 | 80 |
| 166 | Sundar | Ande | SANDE | 011.44.1346.629268 | 24-MAR-00 | SA_REP | 6400 | .1 | 147 | 80 |
| 167 | Amit | Banda | ABANDA | 011.44.1346.729268 | 21-APR-00 | SA_REP | 6200 | .1 | 147 | 80 |
| 168 | Lisa | Ozer | LOZER | 011.44.1343.929268 | 11-MAR-97 | SA_REP | 11500 | .25 | 148 | 80 |
| 169 | Harrison | Bloom | HBLOOM | 011.44.1343.829268 | 23-MAR-98 | SA_REP | 10000 | .2 | 148 | 80 |

## `EMPLOYEES` **Table (continued)**

| EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL | PHONE_NUMBER | HIRE_DATE | JOB_ID | SALARY | comm | mgrid | deptid |
|---|---|---|---|---|---|---|---|---|---|---|
| 170 | Tayler | Fox | TFOX | 011.44.1343.729268 | 24-JAN-98 | SA_REP | 9600 | .2 | 148 | 80 |
| 171 | William | Smith | WSMITH | 011.44.1343.629268 | 23-FEB-99 | SA_REP | 7400 | .15 | 148 | 80 |
| 172 | Elizabeth | Bates | EBATES | 011.44.1343.529268 | 24-MAR-99 | SA_REP | 7300 | .15 | 148 | 80 |
| 173 | Sundita | Kumar | SKUMAR | 011.44.1343.329268 | 21-APR-00 | SA_REP | 6100 | .1 | 148 | 80 |
| 174 | Ellen | Abel | EABEL | 011.44.1644.429267 | 11-MAY-96 | SA_REP | 11000 | .3 | 149 | 80 |
| 175 | Alyssa | Hutton | AHUTTON | 011.44.1644.429266 | 19-MAR-97 | SA_REP | 8800 | .25 | 149 | 80 |
| 176 | Jonathon | Taylor | JTAYLOR | 011.44.1644.429265 | 24-MAR-98 | SA_REP | 8600 | .2 | 149 | 80 |
| 177 | Jack | Livingston | JLIVNGS | 011.44.1644.429264 | 23-APR-98 | SA_REP | 8400 | .2 | 149 | 80 |
| 178 | Kimberely | Grant | KGRANT | 011.44.1644.429263 | 24-MAY-99 | SA_REP | 7000 | .15 | 149 | |
| 179 | Charles | Johnson | CJOHNSON | 011.44.1644.429262 | 04-JAN-00 | SA_REP | 6200 | .1 | 149 | 80 |
| 180 | Winston | Taylor | WTAYLOR | 650.507.9876 | 24-JAN-98 | SH_CLERK | 3200 | | 120 | 50 |
| 181 | Jean | Fleaur | JFLEAUR | 650.507.9877 | 23-FEB-98 | SH_CLERK | 3100 | | 120 | 50 |
| 182 | Martha | Sullivan | MSULLIVA | 650.507.9878 | 21-JUN-99 | SH_CLERK | 2500 | | 120 | 50 |
| 183 | Girard | Geoni | GGEONI | 650.507.9879 | 03-FEB-00 | SH_CLERK | 2800 | | 120 | 50 |
| EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL | PHONE_NUMBER | HIRE_DATE | JOB_ID | SALARY | comm | mgrid | deptid |
| 184 | Nandita | Sarchand | NSARCHAN | 650.509.1876 | 27-JAN-96 | SH_CLERK | 4200 | | 121 | 50 |
| 185 | Alexis | Bull | ABULL | 650.509.2876 | 20-FEB-97 | SH_CLERK | 4100 | | 121 | 50 |
| 186 | Julia | Dellinger | JDELLING | 650.509.3876 | 24-JUN-98 | SH_CLERK | 3400 | | 121 | 50 |
| 187 | Anthony | Cabrio | ACABRIO | 650.509.4876 | 07-FEB-99 | SH_CLERK | 3000 | | 121 | 50 |
| 188 | Kelly | Chung | KCHUNG | 650.505.1876 | 14-JUN-97 | SH_CLERK | 3800 | | 122 | 50 |
| 189 | Jennifer | Dilly | JDILLY | 650.505.2876 | 13-AUG-97 | SH_CLERK | 3600 | | 122 | 50 |
| 190 | Timothy | Gates | TGATES | 650.505.3876 | 11-JUL-98 | SH_CLERK | 2900 | | 122 | 50 |
| 191 | Randall | Perkins | RPERKINS | 650.505.4876 | 19-DEC-99 | SH_CLERK | 2500 | | 122 | 50 |
| 192 | Sarah | Bell | SBELL | 650.501.1876 | 04-FEB-96 | SH_CLERK | 4000 | | 123 | 50 |
| 193 | Britney | Everett | BEVERETT | 650.501.2876 | 03-MAR-97 | SH_CLERK | 3900 | | 123 | 50 |
| 194 | Samuel | McCain | SMCCAIN | 650.501.3876 | 01-JUL-98 | SH_CLERK | 3200 | | 123 | 50 |
| 195 | Vance | Jones | VJONES | 650.501.4876 | 17-MAR-99 | SH_CLERK | 2800 | | 123 | 50 |
| 196 | Alana | Walsh | AWALSH | 650.507.9811 | 24-APR-98 | SH_CLERK | 3100 | | 124 | 50 |
| 197 | Kevin | Feeney | KFEENEY | 650.507.9822 | 23-MAY-98 | SH_CLERK | 3000 | | 124 | 50 |
| EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL | PHONE_NUMBER | HIRE_DATE | JOB_ID | SALARY | comm | mgrid | deptid |
| 198 | Donald | OConnell | DOCONNEL | 650.507.9833 | 21-JUN-99 | SH_CLERK | 2600 | | 124 | 50 |
| 199 | Douglas | Grant | DGRANT | 650.507.9844 | 13-JAN-00 | SH_CLERK | 2600 | | 124 | 50 |
| 200 | Jennifer | Whalen | JWHALEN | 515.123.4444 | 17-SEP-87 | AD_ASST | 4400 | | 101 | 10 |
| 201 | Michael | Hartstein | MHARTSTE | 515.123.5555 | 17-FEB-96 | MK_MAN | 13000 | | 100 | 20 |
| 202 | Pat | Fay | PFAY | 603.123.6666 | 17-AUG-97 | MK_REP | 6000 | | 201 | 20 |
| 203 | Susan | Mavris | SMAVRIS | 515.123.7777 | 07-JUN-94 | HR_REP | 6500 | | 101 | 40 |
| 204 | Hermann | Baer | HBAER | 515.123.8888 | 07-JUN-94 | PR_REP | 10000 | | 101 | 70 |
| 205 | Shelley | Higgins | SHIGGINS | 515.123.8080 | 07-JUN-94 | AC_MGR | 12000 | | 101 | 110 |
| 206 | William | Gietz | WGIETZ | 515.123.8181 | 07-JUN-94 | AC_ACCOUNT | 8300 | | 205 | 110 |

107 rows selected.

## JOB_HISTORY Table

DESCRIBE job_history

| Name | Null? | Type |
|---|---|---|
| EMPLOYEE_ID | NOT NULL | NUMBER(6) |
| START_DATE | NOT NULL | DATE |
| END_DATE | NOT NULL | DATE |
| JOB_ID | NOT NULL | VARCHAR2(10) |
| DEPARTMENT_ID | | NUMBER(4) |

SELECT * FROM job_history;

| EMPLOYEE_ID | START_DAT | END_DATE | JOB_ID | deptid |
|---|---|---|---|---|
| 102 | 13-JAN-93 | 24-JUL-98 | IT_PROG | 60 |
| 101 | 21-SEP-89 | 27-OCT-93 | AC_ACCOUNT | 110 |
| 101 | 28-OCT-93 | 15-MAR-97 | AC_MGR | 110 |
| 201 | 17-FEB-96 | 19-DEC-99 | MK_REP | 20 |
| 114 | 24-MAR-98 | 31-DEC-99 | ST_CLERK | 50 |
| 122 | 01-JAN-99 | 31-DEC-99 | ST_CLERK | 50 |
| 200 | 17-SEP-87 | 17-JUN-93 | AD_ASST | 90 |
| 176 | 24-MAR-98 | 31-DEC-98 | SA_REP | 80 |
| 176 | 01-JAN-99 | 31-DEC-99 | SA_MAN | 80 |
| 200 | 01-JUL-94 | 31-DEC-98 | AC_ACCOUNT | 90 |

10 rows selected.

**Oracle Database 10*g*: Develop PL/SQL Program Units   B-13**