|  |
| --- |
|  |
|  |  |
|  | 1.mysql> UPDATE EMPLOYEES SET SALARY = 8000 WHERE EMPLOYEE\_ID = 115 AND SALARY < 6000; |
|  | Query OK, 1 row affected (0.15 sec) |
|  | Rows matched: 1 Changed: 1 Warnings: 0 |
|  |  |
|  | 2. Insert a new employee into employees with all the required details. |
|  |  |
|  | 2.mysql> INSERT INTO employees VALUES(207, 'bhagi', 'nagina', 'hyd', '515.123.4568', '1989-09-21', 'AD\_VP', 17000 , NULL, 100, 90); |
|  | Query OK, 1 row affected (0.27 sec) |
|  |  |
|  | 3. Delete department 20. |
|  |  |
|  | delete from department where department\_id=20; |
|  |  |
|  | 4. Change job ID of employee 110 to IT\_PROG if the employee belongs to department 10 and the existing job ID does not start with IT. |
|  |  |
|  | 4. update employees set job\_id ='it\_prog' where employee\_id=110 and department\_id=10 and not job\_id like 'it%'; |
|  | Query OK, 0 rows affected (0.05 sec) |
|  | 1.select \* from departments where manager\_id in(select employee\_id from employees where first\_name='john'); |
|  | +---------------+-----------------+------------+-------------+ |
|  | | department\_id | department\_name | manager\_id | location\_id | |
|  | +---------------+-----------------+------------+-------------+ |
|  | | 80 | Sales | 145 | 2500 | |
|  | +---------------+-----------------+------------+-------------+ |
|  | 1 row in set (0.00 sec) |
|  |  |
|  | 5. Insert a row into departments table with manager ID 120 and location ID in any location ID for city Tokyo. |
|  |  |
|  | mysql> INSERT INTO departments VALUES( 290,'sports',120,1500); |
|  | Query OK, 1 row affected (0.09 sec) |
|  |  |
|  | 6. Display job title, employee ID, number of days between ending date and starting date for all jobs in department 30 from job history. |
|  |  |
|  | mysql> select employee\_id,job\_title,end\_date-start\_date days from job\_history natural join jobs WHERE DEPARTMENT\_ID=30; |
|  | Empty set (0.00 sec) |
|  |  |
|  | DDL WITH CONSTRAINTS |
|  |  |
|  | 1.Table ---> Customer |
|  | custId, firstName,lastName,age,city, mobileNumber, dob |
|  | Add the Constraints |
|  | custId is Primary Key |
|  | firstName not null |
|  | age must be greater than 21 |
|  | mobile must be unique |
|  |  |
|  | 1. CREATE TABLE customer(custid VARCHAR(6),fname VARCHAR(30) not null,ltname VARCHAR(30),city VARCHAR(15),mobileno VARCHAR(10) unique,age varchar(10) check(age>21) ,dob DATE,CONSTRAINT customer\_custid\_pk PRIMARY KEY(custid)); |
|  | mysql> desc customer; |
|  | +----------+-------------+------+-----+---------+-------+ |
|  | | Field | Type | Null | Key | Default | Extra | |
|  | +----------+-------------+------+-----+---------+-------+ |
|  | | custid | varchar(6) | NO | PRI | NULL | | |
|  | | fname | varchar(30) | NO | | NULL | | |
|  | | ltname | varchar(30) | YES | | NULL | | |
|  | | city | varchar(15) | YES | | NULL | | |
|  | | mobileno | varchar(10) | YES | UNI | NULL | | |
|  | | age | varchar(10) | YES | | NULL | | |
|  | | dob | date | YES | | NULL | | |
|  | +----------+-------------+------+-----+---------+-------+ |
|  | 7 rows in set (0.00 sec) |
|  |  |
|  | 2.Table ----> Branch |
|  | branchId, branchName, city |
|  | Add the Constraints |
|  | branchId is Primary Key |
|  | branchName not null |
|  | city not null |
|  |  |
|  | 2.mysql> CREATE TABLE branch(bid VARCHAR(6),bname VARCHAR(30),bcity VARCHAR(30) not null,CONSTRAINT branch\_bid\_pk PRIMARY KEY(bid)); |
|  | mysql> desc branch; |
|  | +-------+-------------+------+-----+---------+-------+ |
|  | | Field | Type | Null | Key | Default | Extra | |
|  | +-------+-------------+------+-----+---------+-------+ |
|  | | bid | varchar(6) | NO | PRI | NULL | | |
|  | | bname | varchar(30) | YES | | NULL | | |
|  | | bcity | varchar(30) | NO | | NULL | | |
|  | +-------+-------------+------+-----+---------+-------+ |
|  | 3 rows in set (0.00 sec) |
|  |  |
|  |  |
|  | 3.Table -----> Account |
|  | accountNumber, openingBalance, typeOfAccount, status,BankId,CustId |
|  | Add the Constraints |
|  | accountNumber is primary key |
|  | openingBalance must be greater than 5000 |
|  | typeOfAccount must be saving/current |
|  | BankId is foreign key refer to BranchId(Primary key) Branch table |
|  | CustId is foreign key refer to Customer(Primary key) Customer table |
|  |  |
|  | 3. CREATE TABLE account(acnumber VARCHAR(6),custid VARCHAR(6),bid VARCHAR(6),opening\_balance INT(7),aod DATE,atype VARCHAR(10),astatus VARCHAR(10),CONSTRAINT account\_acnumber\_pk PRIMARY KEY(acnumber),CONSTRAINT account\_custid\_fk FOREIGN KEY(custid) REFERENCES customer(custid),CONSTRAINT account\_bid\_fk FOREIGN KEY(bid) REFERENCES branch(bid)); |
|  | Query OK, 0 rows affected, 1 warning (0.81 sec) |
|  | mysql> desc customer; |
|  | +----------+-------------+------+-----+---------+-------+ |
|  | | Field | Type | Null | Key | Default | Extra | |
|  | +----------+-------------+------+-----+---------+-------+ |
|  | | custid | varchar(6) | NO | PRI | NULL | | |
|  | | fname | varchar(30) | NO | | NULL | | |
|  | | ltname | varchar(30) | YES | | NULL | | |
|  | | city | varchar(15) | YES | | NULL | | |
|  | | mobileno | varchar(10) | YES | UNI | NULL | | |
|  | | age | varchar(10) | YES | | NULL | | |
|  | | dob | date | YES | | NULL | | |
|  | +----------+-------------+------+-----+---------+-------+ |
|  | 7 rows in set (0.16 sec) |
|  |  |
|  |  |
|  | 4. Table ----> Transaction |
|  | transactionId, transactionDate, MediumOfTransaction, TransactionAmount |
|  | Add the Constraints |
|  | transactionId is primary key |
|  |  |
|  | 4.mysql> CREATE TABLE transaction(transaction\_id int,medium\_of\_transaction VARCHAR(20),transaction\_amount INT(7),transaction\_date date,CONSTRAINT trandetails\_id\_pk PRIMARY KEY(transaction\_id)); |
|  | Query OK, 0 rows affected, 1 warning (1.32 sec) |
|  |  |
|  | mysql> desc transaction; |
|  | +-----------------------+-------------+------+-----+---------+-------+ |
|  | | Field | Type | Null | Key | Default | Extra | |
|  | +-----------------------+-------------+------+-----+---------+-------+ |
|  | | transaction\_id | int | NO | PRI | NULL | | |
|  | | medium\_of\_transaction | varchar(20) | YES | | NULL | | |
|  | | transaction\_amount | int | YES | | NULL | | |
|  | | transaction\_date | date | YES | | NULL | | |
|  | +-----------------------+-------------+------+-----+---------+-------+ |
|  | 4 rows in set (0.14 sec) |
|  |  |
|  |  |
|  | 5.Table ----> Loan |
|  | LoanId, loanAmount, customerId and bankdId |
|  | Add the Constraints |
|  | loadId is primary key |
|  | loanAmount must be +ve |
|  | BankId is foreign key refer to BranchId(Primary key) Branch table |
|  |  |
|  |  |
|  | 5. CREATE TABLE loan(custid VARCHAR(6),loan\_id varchar (10),bid VARCHAR(6),loan\_amount INT(7),CONSTRAINT loan\_customer\_custid\_bid\_pk PRIMARY KEY(custid,bid),CONSTRAINT loan\_custid\_fk FOREIGN KEY(custid) REFERENCES customer(custid),CONSTRAINT loan\_bid\_fk FOREIGN KEY(bid) REFERENCES branch(bid) ); |
|  | Query OK, 0 rows affected, 1 warning (1.98 sec) |
|  |  |
|  | mysql> desc loan; |
|  | +-------------+-------------+------+-----+---------+-------+ |
|  | | Field | Type | Null | Key | Default | Extra | |
|  | +-------------+-------------+------+-----+---------+-------+ |
|  | | custid | varchar(6) | NO | PRI | NULL | | |
|  | | loan\_id | varchar(10) | YES | | NULL | | |
|  | | bid | varchar(6) | NO | PRI | NULL | | |
|  | | loan\_amount | int | YES | | NULL | | |
|  | +-------------+-------------+------+-----+---------+-------+ |
|  | 4 rows in set (0.09 sec) |
|  |  |
|  | SUB QUERY |
|  |  |
|  |  |
|  | 1. Display details of departments managed by ‘John’. |
|  |  |
|  | mysql> SELECT \* FROM DEPARTMENTS WHERE MANAGER\_ID IN (SELECT EMPLOYEE\_ID FROM EMPLOYEES WHERE FIRST\_NAME='john'); |
|  | +---------------+-----------------+------------+-------------+ |
|  | | department\_id | department\_name | manager\_id | location\_id | |
|  | +---------------+-----------------+------------+-------------+ |
|  | | 80 | Sales | 145 | 2500 | |
|  | +---------------+-----------------+------------+-------------+ |
|  | 1 row in set (0.00 sec) |
|  | 2. Display employees who did not do any job in the past. |
|  |  |
|  | 2.mysql> select \* from employees where employee\_id not in(select employee\_id from job\_history); |
|  | +-------------+-------------+-------------+----------+--------------------+------------+------------+--------+----------------+------------+---------------+ |
|  | | employee\_id | first\_name | last\_name | email | phone\_int | hire\_date | job\_id | salary | commission\_pct | manager\_id | department\_id | |
|  | +-------------+-------------+-------------+----------+--------------------+------------+------------+--------+----------------+------------+---------------+ |
|  | | 100 | Steven | King | SKING | 515.123.4567 | 1987-06-27 | AD\_PRES | 24000 | NULL | NULL | 90 | |
|  | | 103 | Alexander | Hunold | AHUNOLD | 590.423.4567 | 1990-01-03 | IT\_PROG | 9000 | NULL | 102 | 60 | |
|  | | 104 | Bruce | Ernst | BERNST | 590.423.4568 | 1991-05-21 | IT\_PROG | 6000 | NULL | 103 | 60 | |
|  | | 105 | David | Austin | DAUSTIN | 590.423.4569 | 1997-06-25 | IT\_PROG | 4800 | NULL | 103 | 60 | |
|  | | 106 | Valli | Pataballa | VPATABAL | 590.423.4560 | 1998-02-05 | IT\_PROG | 4800 | NULL | 103 | 60 | |
|  | | 107 | Diana | Lorentz | DLORENTZ | 590.423.5567 | 1999-02-07 | IT\_PROG | 4200 | NULL | 103 | 60 | |
|  | | 108 | Nancy | Greenberg | NGREENBE | 515.124.4569 | 1994-08-17 | FI\_MGR | 12000 | NULL | 101 | 100 | |
|  | | 109 | Daniel | Faviet | DFAVIET | 515.124.4169 | 1994-07-16 | FI\_ACCOUNT | 9000 | NULL | 108 | 100 | |
|  | | 110 | John | Chen | JCHEN | 515.124.4269 | 1997-09-28 | FI\_ACCOUNT | 8200 | NULL | 108 | 100 | |
|  | | 111 | Ismael | Sciarra | ISCIARRA | 515.124.4369 | 1997-08-30 | FI\_ACCOUNT | 7700 | NULL | 108 | 100 | |
|  | | 112 | Jose Manuel | Urman | JMURMAN | 515.124.4469 | 1998-03-07 | FI\_ACCOUNT | 7800 | NULL | 108 | 100 | |
|  | | 113 | Luis | Popp | LPOPP | 515.124.4567 | 1999-12-07 | FI\_ACCOUNT | 6900 | NULL | 108 | 100 | |
|  | | 115 | Alexander | Khoo | AKHOO | 515.127.4562 | 1995-05-18 | PU\_CLERK | 8000 | NULL | 114 | 30 | |
|  | | 116 | Shelli | Baida | SBAIDA | 515.127.4563 | 1997-12-24 | PU\_CLERK | 2900 | NULL | 114 | 30 | |
|  | | 117 | Sigal | Tobias | STOBIAS | 515.127.4564 | 1997-07-24 | PU\_CLERK | 2800 | NULL | 114 | 30 | |
|  | | 118 | Guy | Himuro | GHIMURO | 515.127.4565 | 1998-11-15 | PU\_CLERK | 2600 | NULL | 114 | 30 | |
|  | | 119 | Karen | Colmenares | KCOLMENA | 515.127.4566 | 1999-08-10 | PU\_CLERK | 2500 | NULL | 114 | 30 | |
|  | | 120 | Matthew | Weiss | MWEISS | 650.123.1234 | 1996-07-18 | ST\_MAN | 8000 | NULL | 100 | 50 | |
|  | | 121 | Adam | Fripp | AFRIPP | 650.123.2234 | 1997-04-10 | ST\_MAN | 8200 | NULL | 100 | 50 | |
|  | | 123 | Shanta | Vollman | SVOLLMAN | 650.123.4234 | 1997-10-10 | ST\_MAN | 6500 | NULL | 100 | 50 | |
|  | | 124 | Kevin | Mourgos | KMOURGOS | 650.123.5234 | 1999-11-16 | ST\_MAN | 5800 | NULL | 100 | 50 | |
|  | | 125 | Julia | Nayer | JNAYER | 650.124.1214 | 1997-07-16 | ST\_CLERK | 3200 | NULL | 120 | 50 | |
|  | | 126 | Irene | Mikkilineni | IMIKKILI | 650.124.1224 | 1998-09-28 | ST\_CLERK | 2700 | NULL | 120 | 50 | |
|  | | 127 | James | Landry | JLANDRY | 650.124.1334 | 1999-01-14 | ST\_CLERK | 2400 | NULL | 120 | 50 | |
|  | | 128 | Steven | Markle | SMARKLE | 650.124.1434 | 2000-03-08 | ST\_CLERK | 2200 | NULL | 120 | 50 | |
|  | | 129 | Laura | Bissot | LBISSOT | 650.124.5234 | 1997-08-20 | ST\_CLERK | 3300 | NULL | 121 | 50 | |
|  | | 130 | Mozhe | Atkinson | MATKINSO | 650.124.6234 | 1997-10-30 | ST\_CLERK | 2800 | NULL | 121 | 50 | |
|  | | 131 | James | Marlow | JAMRLOW | 650.124.7234 | 1997-02-16 | ST\_CLERK | 2500 | NULL | 121 | 50 | |
|  | | 132 | TJ | Olson | TJOLSON | 650.124.8234 | 1999-04-10 | ST\_CLERK | 2100 | NULL | 121 | 50 | |
|  | | 133 | Jason | Mallin | JMALLIN | 650.127.1934 | 1996-06-14 | ST\_CLERK | 3300 | NULL | 122 | 50 | |
|  | | 134 | Michael | Rogers | MROGERS | 650.127.1834 | 1998-08-26 | ST\_CLERK | 2900 | NULL | 122 | 50 | |
|  | | 135 | Ki | Gee | KGEE | 650.127.1734 | 1999-12-12 | ST\_CLERK | 2400 | NULL | 122 | 50 | |
|  | | 136 | Hazel | Philtanker | HPHILTAN | 650.127.1634 | 2000-02-06 | ST\_CLERK | 2200 | NULL | 122 | 50 | |
|  | | 137 | Renske | Ladwig | RLADWIG | 650.121.1234 | 1995-07-14 | ST\_CLERK | 3600 | NULL | 123 | 50 | |
|  | | 138 | Stephen | Stiles | SSTILES | 650.121.2034 | 1997-10-26 | ST\_CLERK | 3200 | NULL | 123 | 50 | |
|  | | 139 | John | Seo | JSEO | 650.121.2019 | 1998-02-12 | ST\_CLERK | 2700 | NULL | 123 | 50 | |
|  | | 140 | Joshua | Patel | JPATEL | 650.121.1834 | 1998-04-06 | ST\_CLERK | 2500 | NULL | 123 | 50 | |
|  | | 141 | Trenna | Rajs | TRAJS | 650.121.8009 | 1995-10-17 | ST\_CLERK | 3500 | NULL | 124 | 50 | |
|  | | 142 | Curtis | Davies | CDAVIES | 650.121.2994 | 1997-01-29 | ST\_CLERK | 3100 | NULL | 124 | 50 | |
|  | | 143 | Randall | Matos | RMATOS | 650.121.2874 | 1998-03-15 | ST\_CLERK | 2600 | NULL | 124 | 50 | |
|  | | 144 | Peter | Vargas | PVARGAS | 650.121.2004 | 1998-07-09 | ST\_CLERK | 2500 | NULL | 124 | 50 | |
|  | | 145 | John | Russell | JRUSSEL | 011.44.1344.429268 | 1996-10-01 | SA\_MAN | 14000 | 0.4 | 100 | 80 | |
|  | | 146 | Karen | Partners | KPARTNER | 011.44.1344.467268 | 1997-01-05 | SA\_MAN | 13500 | 0.3 | 100 | 80 | |
|  | | 147 | Alberto | Errazuriz | AERRAZUR | 011.44.1344.429278 | 1997-03-10 | SA\_MAN | 12000 | 0.3 | 100 | 80 | |
|  | | 148 | Gerald | Cambrault | GCAMBRAU | 011.44.1344.619268 | 1999-10-15 | SA\_MAN | 11000 | 0.3 | 100 | 80 | |
|  | | 149 | Eleni | Zlotkey | EZLOTKEY | 011.44.1344.429018 | 2000-01-29 | SA\_MAN | 10500 | 0.2 | 100 | 80 | |
|  | | 150 | Peter | Tucker | PTUCKER | 011.44.1344.129268 | 1997-01-30 | SA\_REP | 10000 | 0.3 | 145 | 80 | |
|  | | 151 | David | Bernstein | DBERNSTE | 011.44.1344.345268 | 1997-03-24 | SA\_REP | 9500 | 0.25 | 145 | 80 | |
|  | | 152 | Peter | Hall | PHALL | 011.44.1344.478968 | 1997-08-20 | SA\_REP | 9000 | 0.25 | 145 | 80 | |
|  | | 153 | Christopher | Olsen | COLSEN | 011.44.1344.498718 | 1998-03-30 | SA\_REP | 8000 | 0.2 | 145 | 80 | |
|  | | 154 | Nanette | Cambrault | NCAMBRAU | 011.44.1344.987668 | 1998-12-09 | SA\_REP | 7500 | 0.2 | 145 | 80 | |
|  | | 155 | Oliver | Tuvault | OTUVAULT | 011.44.1344.486508 | 1999-11-23 | SA\_REP | 7000 | 0.15 | 145 | 80 | |
|  | | 156 | Janette | King | JKING | 011.44.1345.429268 | 1996-01-30 | SA\_REP | 10000 | 0.35 | 146 | 80 | |
|  | | 157 | Patrick | Sully | PSULLY | 011.44.1345.929268 | 1996-03-04 | SA\_REP | 9500 | 0.35 | 146 | 80 | |
|  | | 158 | Allan | McEwen | AMCEWEN | 011.44.1345.829268 | 1996-07-01 | SA\_REP | 9000 | 0.35 | 146 | 80 | |
|  | | 159 | Lindsey | Smith | LSMITH | 011.44.1345.729268 | 1997-03-10 | SA\_REP | 8000 | 0.3 | 146 | 80 | |
|  | | 160 | Louise | Doran | LDORAN | 011.44.1345.629268 | 1997-12-15 | SA\_REP | 7500 | 0.3 | 146 | 80 | |
|  | | 161 | Sarath | Sewall | SSEWALL | 011.44.1345.529268 | 1998-11-03 | SA\_REP | 7000 | 0.25 | 146 | 80 | |
|  | | 162 | Clara | Vishney | CVISHNEY | 011.44.1346.129268 | 1997-11-11 | SA\_REP | 10500 | 0.25 | 147 | 80 | |
|  | | 163 | Danielle | Greene | DGREENE | 011.44.1346.229268 | 1999-03-19 | SA\_REP | 9500 | 0.15 | 147 | 80 | |
|  | | 164 | Mattea | Marvins | MMARVINS | 011.44.1346.329268 | 2000-01-24 | SA\_REP | 7200 | 0.1 | 147 | 80 | |
|  | | 165 | David | Lee | DLEE | 011.44.1346.529268 | 2000-02-23 | SA\_REP | 6800 | 0.1 | 147 | 80 | |
|  | | 166 | Sundar | Ande | SANDE | 011.44.1346.629268 | 2000-03-24 | SA\_REP | 6400 | 0.1 | 147 | 80 | |
|  | | 167 | Amit | Banda | ABANDA | 011.44.1346.729268 | 2000-04-21 | SA\_REP | 6200 | 0.1 | 147 | 80 | |
|  | | 168 | Lisa | Ozer | LOZER | 011.44.1343.929268 | 1997-03-11 | SA\_REP | 11500 | 0.25 | 148 | 80 | |
|  | | 169 | Harrison | Bloom | HBLOOM | 011.44.1343.829268 | 1998-03-23 | SA\_REP | 10000 | 0.2 | 148 | 80 | |
|  | | 170 | Tayler | Fox | TFOX | 011.44.1343.729268 | 1998-01-24 | SA\_REP | 9600 | 0.2 | 148 | 80 | |
|  | | 171 | William | Smith | WSMITH | 011.44.1343.629268 | 1999-02-23 | SA\_REP | 7400 | 0.15 | 148 | 80 | |
|  | | 172 | Elizabeth | Bates | EBATES | 011.44.1343.529268 | 1999-03-24 | SA\_REP | 7300 | 0.15 | 148 | 80 | |
|  | | 173 | Sundita | Kumar | SKUMAR | 011.44.1343.329268 | 2000-04-21 | SA\_REP | 6100 | 0.1 | 148 | 80 | |
|  | | 174 | Ellen | Abel | EABEL | 011.44.1644.429267 | 1996-05-11 | SA\_REP | 11000 | 0.3 | 149 | 80 | |
|  | | 175 | Alyssa | Hutton | AHUTTON | 011.44.1644.429266 | 1997-03-19 | SA\_REP | 8800 | 0.25 | 149 | 80 | |
|  | | 177 | Jack | Livingston | JLIVINGS | 011.44.1644.429264 | 1998-04-23 | SA\_REP | 8400 | 0.2 | 149 | 80 | |
|  | | 178 | Kimberely | Grant | KGRANT | 011.44.1644.429263 | 1999-05-24 | SA\_REP | 7000 | 0.15 | 149 | NULL | |
|  | | 179 | Charles | Johnson | CJOHNSON | 011.44.1644.429262 | 2000-01-04 | SA\_REP | 6200 | 0.1 | 149 | 80 | |
|  | | 180 | Winston | Taylor | WTAYLOR | 650.507.9876 | 1998-01-24 | SH\_CLERK | 3200 | NULL | 120 | 50 | |
|  | | 181 | Jean | Fleaur | JFLEAUR | 650.507.9877 | 1998-02-23 | SH\_CLERK | 3100 | NULL | 120 | 50 | |
|  | | 182 | Martha | Sullivan | MSULLIVA | 650.507.9878 | 1999-06-21 | SH\_CLERK | 2500 | NULL | 120 | 50 | |
|  | | 183 | Girard | Geoni | GGEONI | 650.507.9879 | 2000-02-03 | SH\_CLERK | 2800 | NULL | 120 | 50 | |
|  | | 184 | Nandita | Sarchand | NSARCHAN | 650.509.1876 | 1996-01-27 | SH\_CLERK | 4200 | NULL | 121 | 50 | |
|  | | 185 | Alexis | Bull | ABULL | 650.509.2876 | 1997-02-20 | SH\_CLERK | 4100 | NULL | 121 | 50 | |
|  | | 186 | Julia | Dellinger | JDELLING | 650.509.3876 | 1998-06-24 | SH\_CLERK | 3400 | NULL | 121 | 50 | |
|  | | 187 | Anthony | Cabrio | ACABRIO | 650.509.4876 | 1999-02-07 | SH\_CLERK | 3000 | NULL | 121 | 50 | |
|  | | 188 | Kelly | Chung | KCHUNG | 650.505.1876 | 1997-06-14 | SH\_CLERK | 3800 | NULL | 122 | 50 | |
|  | | 189 | Jennifer | Dilly | JDILLY | 650.505.2876 | 1997-07-13 | SH\_CLERK | 3600 | NULL | 122 | 50 | |
|  | | 190 | Timothy | Gates | TGATES | 650.505.3876 | 1998-07-11 | SH\_CLERK | 2900 | NULL | 122 | 50 | |
|  | | 191 | Randall | Perkins | RPERKINS | 650.505.4876 | 1999-12-19 | SH\_CLERK | 2500 | NULL | 122 | 50 | |
|  | | 192 | Sarah | Bell | SBELL | 650.501.1876 | 1996-02-04 | SH\_CLERK | 4000 | NULL | 123 | 50 | |
|  | | 193 | Britney | Everett | BEVERETT | 650.501.2876 | 1997-03-03 | SH\_CLERK | 3900 | NULL | 123 | 50 | |
|  | | 194 | Samuel | McCain | SMCCAIN | 650.501.3876 | 1998-06-01 | SH\_CLERK | 3200 | NULL | 123 | 50 | |
|  | | 195 | Vance | Jones | VJONES | 650.501.4876 | 1999-03-17 | SH\_CLERK | 2800 | NULL | 123 | 50 | |
|  | | 196 | Alana | Walsh | AWALSH | 650.507.9811 | 1998-04-24 | SH\_CLERK | 3100 | NULL | 124 | 50 | |
|  | | 197 | Kevin | Feeney | KFEENEY | 650.507.9822 | 1998-05-23 | SH\_CLERK | 3000 | NULL | 124 | 50 | |
|  | | 198 | Donald | OConnell | DOCONNEL | 650.507.9833 | 1999-06-21 | SH\_CLERK | 2600 | NULL | 124 | 50 | |
|  | | 199 | Douglas | Grant | DGRANT | 650.507.9844 | 2000-01-13 | SH\_CLERK | 2600 | NULL | 124 | 50 | |
|  | | 202 | Pat | Fay | PFAY | 603.123.6666 | 1997-07-17 | MK\_REP | 6000 | NULL | 201 | 20 | |
|  | | 203 | Susan | Mavris | SMAVRIS | 515.123.7777 | 1994-06-07 | HR\_REP | 6500 | NULL | 101 | 40 | |
|  | | 204 | Hermann | Baer | HBAER | 515.123.8888 | 1994-06-07 | PR\_REP | 10000 | NULL | 101 | 70 | |
|  | | 205 | Shelley | Higgins | SHIGGINS | 515.123.8080 | 1994-06-07 | AC\_MGR | 12000 | NULL | 101 | 110 | |
|  | | 206 | William | Gietz | WGIETZ | 515.123.8181 | 1994-06-07 | AC\_ACCOUNT | 8300 | NULL | 205 | 110 | |
|  | | 207 | bhagi | nagina | hyd | 515.123.4568 | 1989-09-21 | AD\_VP | 17000 | NULL | 100 | 90 | |
|  | +-------------+-------------+-------------+----------+--------------------+------------+------------+--------+----------------+------------+---------------+ |
|  | 101 rows in set (0.06 sec) |
|  |  |
|  | 3. Display job title and average salary for employees who did a job in the past. |
|  |  |
|  | 3.mysql> select job\_title from jobs natural join employees where employee\_id in (select employee\_id from job\_history); |
|  | +-------------------------------+ |
|  | | job\_title | |
|  | +-------------------------------+ |
|  | | Administration Assistant | |
|  | | Administration Vice President | |
|  | | Administration Vice President | |
|  | | Marketing Manager | |
|  | | Purchasing Manager | |
|  | | Sales Representative | |
|  | | Stock Manager | |
|  | +-------------------------------+ |
|  | 7 rows in set (0.05 sec) |
|  |  |
|  | 4. Display country name, city, and number of departments where department has more than 5 employees. |
|  |  |
|  | 4.select country\_name,city,count(department\_id) from countries join locations using(country\_id)join departments using(location\_id) where department\_id in(select department\_id from employees group by department\_id having count(department\_id)>5) group by country\_name,city; |
|  | +--------------------------+---------------------+----------------------+ |
|  | | country\_name | city | count(department\_id) | |
|  | +--------------------------+---------------------+----------------------+ |
|  | | United States of America | South San Francisco | 1 | |
|  | | United States of America | Seattle | 2 | |
|  | | United Kingdom | Oxford | 1 | |
|  | +--------------------------+---------------------+----------------------+ |
|  | 3 rows in set (0.06 sec) |
|  |  |
|  | 5. Display details of manager who manages more than 5 employees. |
|  |  |
|  | 5.mysql> select first\_name from employees where employee\_id in (select manager\_id from employees group by manager\_id having count(\*)>5); |
|  | +------------+ |
|  | | first\_name | |
|  | +------------+ |
|  | | Steven | |
|  | | Matthew | |
|  | | Adam | |
|  | | Payam | |
|  | | Shanta | |
|  | | Kevin | |
|  | | John | |
|  | | Karen | |
|  | | Alberto | |
|  | | Gerald | |
|  | | Eleni | |
|  | +------------+ |
|  | 11 rows in set (0.05 sec) |
|  |  |
|  | 6. Display details of current job for employees who worked as IT Programmers in the past. |
|  |  |
|  | 6.mysql> select \* from jobs where job\_id in(select job\_id from employees where employee\_id in (select employee\_id from job\_history where job\_id='it\_prog')); |
|  | +--------+-------------------------------+------------+------------+ |
|  | | job\_id | job\_title | min\_salary | max\_salary | |
|  | +--------+-------------------------------+------------+------------+ |
|  | | AD\_VP | Administration Vice President | 15000 | 30000 | |
|  | +--------+-------------------------------+------------+------------+ |
|  | 1 row in set (0.04 sec) |
|  |  |
|  | 7. Display the details of employees drawing the highest salary in the department. |
|  |  |
|  | 7.mysql> select \* from employees where salary=(select max(salary) from employees where department\_id=department\_id); |
|  | +-------------+------------+-----------+-------+--------------+------------+---------+--------+----------------+------------+---------------+ |
|  | | employee\_id | first\_name | last\_name | email | phone\_int | hire\_date | job\_id | salary | commission\_pct | manager\_id | department\_id | |
|  | +-------------+------------+-----------+-------+--------------+------------+---------+--------+----------------+------------+---------------+ |
|  | | 100 | Steven | King | SKING | 515.123.4567 | 1987-06-27 | AD\_PRES | 24000 | NULL | NULL | 90 | |
|  | +-------------+------------+-----------+-------+--------------+------------+---------+--------+----------------+------------+---------------+ |
|  | 1 row in set (0.00 sec) |
|  |  |
|  | 8. Display third highest salary of all employees |
|  |  |
|  | 8.mysql> select salary from employees e where 2=(select count(distinct salary)from employees where salary >e.salary); |
|  | +--------+ |
|  | | salary | |
|  | +--------+ |
|  | | 14000 | |
|  | +--------+ |