MYSQL TASK 2

SHIBIN P K

Creating Database

Creating Tables

Inserting Values

```
mysql> select * from departments;
 Department_id | Department_name
                                 | Location_id |
               Marketing
                                           180
           20
           30
                Purchasing
                                          1700
               Human Resources
                                          2400
                Shipping
                                          1500
           60
                                          1400
                Public Relations
           70
                                          2700
               Sales
           80
                                          2500
           90
                Executive
                                          1700
           100
                Finance
                                          1700
           110
                Accounting
                                          1700
           120
                Treasury
                                          1700
                Corporate Tax
           130
                                          1700
                Control And Credit
          140
                                          1700
                Shareholder Services
          150
                                          1700
                Benefits
          160
                                          1700
               Payroll
16 rows in set (0.02 sec)
 mysql> _
```

```
П
Command Prompt - mysql -u root -p
 vsal>
, ordi> INSERT INTO employees VALUES (100 , 'Steven' , 'King' , 'SKING' , '515.123.4567' , '1987-06-17' , 'AD_PRES' , 24000 , NULL , NULL , 20);
 uery OK, 1 row affected (0.48 sec)
mysql> INSERT INTO employees VALUES (101 , 'Neena' , 'Kochhar' , 'NKOCHHAR' , '515.123.4568' , '1989-11-21' , 'AD_VP' , 17000 , NULL , 100 , 20);
Query OK, 1 row affected (0.09 sec)
mysql> INSERT INTO employees VALUES (102 , 'Lex' , 'De Haan' , 'LDEHAAN' , '515.123.4569' , '1993-09-12' , 'AD_VP' , 17000 , NULL , 100 , 30);
Query OK, 1 row affected (0.05 sec)
mysql> INSERT INTO employees VALUES (103 , 'Alexander' , 'Hunold' , 'AHUNOLD' , '590.423.4567' , '1990-09-30' , 'IT_PROG' , 9000 , NULL , 102 , 60);
  uery OK, 1 row affected (0.08 sec)
mysql> INSERT INTO employees VALUES (104 , 'Bruce' , 'Ernst' , 'BERNST' , '590.423.4568' , '1991-05-21', 'IT_PROG' , 6000 , NULL , 103 , 60);
Query OK, 1 row affected (0.05 sec)
mysql> INSERT INTO employees VALUES (105 , 'David' , 'Austin' , 'DAUSTIN' , '590.423.4569' , '1997-06-25', 'IT_PROG' , 4800 , NULL , 103 , 60);
Query OK, 1 row affected (0.09 sec)
mysql> INSERT INTO employees VALUES (106 , 'Valli' , 'Pataballa' , 'VPATABAL' , '590.423.4560' , '1998-02-05', 'IT_PROG' , 4800 , NULL , 103 , 40);
Query OK, 1 row affected (0.07 sec)
mysql> INSERT INTO employees VALUES (107 , 'Diana' , 'Lorentz' , 'DLORENTZ' , '590.423.5567' , '1999-02-09', 'IT_PROG' , 4200 , NULL , 103 , 40);
Query OK, 1 row affected (0.06 sec)
mysql> INSERT INTO employees VALUES (108 , 'Nancy' , 'Greenberg' , 'NGREENBE' , '515.124.4569' , '1994-08-17', 'FI_MGR' , 12000 , NULL , 101 , 100);
Query OK, 1 row affected (0.06 sec)
mysql> INSERT INTO employees VALUES (109 , 'Daniel' , 'Faviet' , 'DFAVIET' , '515.124.4169' , '1994-08-12', 'FI_ACCOUNT' , 9000 , NULL , 108 , 170);
mysql> INSERT INTO employees VALUES (110 , 'John' , 'Chen' , 'JCHEN' , '515.124.4269' , '1997-04-09', 'FI_ACCOUNT' , 8200 , NULL , 108 , 170);
Query OK, 1 row affected (0.06 sec)
mysql> INSERT INTO employees VALUES (111 , 'Ismael' , 'Sciarra' , 'ISCIARRA' , '515.124.4369' , '1997-02-01', 'FI_ACCOUNT' , 7700 , NULL , 108 , 160);
Query OK, 1 row affected (0.07 sec)
nysql> INSERT INTO employees VALUES
Query OK, 1 row affected (0.10 sec)
                      mployees VALUES (112 , 'Jose Manuel' , 'Urman' , 'JMURMAN' , '515.124.4469' , '1998-06-03', 'FI_ACCOUNT' , 7800 , NULL , 108 , 150);
mysql> INSERT INTO employees VALUES (113 , 'Luis' , 'Popp' , 'LPOPP' , '515.124.4567' , '1999-12-07', 'FI_ACCOUNT' , 6900 , NULL , 108 , 140);
Query OK, 1 row affected (0.15 sec)
nysql> INSERT INTO employees VALUES (114 , 'Den' , 'Raphaely' , 'DRAPHEAL' , '515.127.4561' , '1994-11-08', 'PU_MAN' , 11000 , NULL , 100 , 30);
Query OK, 1 row affected (0.04 sec)
mysql> INSERT INTO employees VALUES (115 , 'Alexander' , 'Khoo' , 'AKHOO' , '515.127.4562' , '1995-05-12', 'PU_CLERK' , 3100 , NULL , 114 , 80);
Query OK, 1 row affected (0.10 sec)
mysql> INSERT INTO employees VALUES (116 , 'Shelli' , 'Baida' , 'SBAIDA' , '515.127.4563' ,'1997-12-13', 'PU_CLERK' , 2900 , NULL , 114 , 70);
Query OK, 1 row affected (0.05 sec)
mysql> INSERT INTO employees VALUES (117 , 'Sigal' , 'Tobias' , 'STOBIAS' , '515.127.4564' , '1997-09-10', 'PU_CLERK' , 2800 , NULL , 114 , 30);
Query OK, 1 row affected (0.05 sec)
mysql> INSERT INTO employees VALUES (118 , 'Guy' , 'Himuro' , 'GHIMURO' , '515.127.4565' , '1998-01-02', 'PU_CLERK' , 2600 , NULL , 114 , 60);
Query OK, 1 row affected (0.09 sec)
mysql> INSERT INTO employees VALUES (119 , 'Karen' , 'Colmenares' , 'KCOLMENA' , '515.127.4566' , '1999-04-08', 'PU_CLERK' , 2500 , NULL , 114 , 130);
Query OK, 1 row affected (0.04 sec)
mysql> INSERT INTO employees VALUES (120 , 'Matthew' , 'Weiss' , 'MWEISS' , '650.123.1234' ,'1996-07-18', 'ST_MAN' , 8000 , NULL , 100 , 50);
Query OK, 1 row affected (0.07 sec)
mysql> INSERT INTO employees VALUES (121 , 'Adam', 'Fripp' , 'AFRIPP' , '650.123.2234' , '1997-08-09', 'ST_MAN' , 8200 , NULL , 100 , 50);
Query OK, 1 row affected (0.05 sec)
mysql> INSERT INTO employees VALUES (122 , 'Payam' , 'Kaufling' , 'PKAUFLIN' , '650.123.3234' ,'1995-05-01', 'ST_MAN' , 7900 , NULL , 100 , 40);
Query OK, 1 row affected (0.04 sec)
mysql> INSERT INTO employees VALUES (123 , 'Shanta' , 'Vollman' , 'SVOLLMAN' , '650.123.4234' , '1997-10-12', 'ST_MAN' , 6500 , NULL , 100 , 50);
Query OK, 1 row affected (0.05 sec)
 ysql> INSERT INTO employees VALUES (124 , 'Kevin' , 'Mourgos' , 'KMOURGOS' , '650.123.5234' , '1999-11-12', 'ST_MAN' , 5800 , NULL , 100 , 80);
Query OK, 1 row affected (0.09 sec)
mysql> INSERT INTO employees VALUES (125 , 'Julia' , 'Nayer' , 'JNAYER' , '650.124.1214' , '1997-07-02', 'ST_CLERK' , 3200 , NULL , 120 , 50);
Query OK, 1 row affected (0.05 sec)
mysql> INSERT INTO employees VALUES (126 , 'Irene' , 'Mikkilineni' , 'IMIKKILI' , '650.124.1224' , '1998-11-12', 'ST_CLERK' , 2700 , NULL , 120 , 50);
Ouerv OK, 1 row affected (0.05 sec)
mysql> INSERT INTO employees VALUES (127 , 'James' , 'Landry' , 'JLANDRY' , '650.124.1334' , '1999-01-02' , 'ST_CLERK' , 2400 , NULL , 120 , 90);
Query OK, 1 row affected (0.06 sec)
mysql> INSERT INTO employees VALUES (128 , 'Steven' , 'Markle' , 'SMARKLE' , '650.124.1434' , '2000-03-04' , 'ST_CLERK' , 2200 , NULL , 120 , 50);
Query OK, 1 row affected (0.09 sec)
mysql> INSERT INTO employees VALUES (129 , 'Laura' , 'Bissot' , 'LBISSOT' , '650.124.5234' ,'1997-09-10' , 'ST_CLERK' , 3300 , NULL , 121 , 50);
Query OK, 1 row affected (0.05 sec)
mysql> INSERT INTO employees VALUES (130 , 'Mozhe' , 'Atkinson' , 'MATKINSO' , '650.124.6234' , '1997-10-12' , 'ST_CLERK' , 2800 , NULL , 121 , 110);
```

uery OK, 1 row affected (0.05 sec)

mployee_id	first_name	_	email	phone_number				commission_pct		
100	Steven	King	SKING	515.123.4567	1987-06-17		24000	NULL	NULL	20
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1989-11-21	AD_VP	17000	NULL	100	20
102	Lex	De Haan	LDEHAAN	515.123.4569	1993-09-12	AD_VP	17000	NULL	100	30
103	Alexander	Hunold	AHUNOLD	590.423.4567	1990-09-30	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	40
107	Diana	Lorentz	DLORENTZ	590.423.5567	1999-02-09	IT_PROG	4200	NULL	103	40
108	Nancy	Greenberg	NGREENBE	515.124.4569	1994-08-17	FI_MGR	12000	NULL	101	100
109	Daniel	Faviet	DFAVIET	515.124.4169	1994-08-12	FI_ACCOUNT	9000	NULL	108	170
110	John	Chen	JCHEN	515.124.4269	1997-04-09	FI_ACCOUNT	8200	NULL	108	170
111	Ismael	Sciarra	ISCIARRA	515.124.4369	1997-02-01	FI_ACCOUNT	7700	NULL	108	160
112	Jose Manuel	Urman	JMURMAN	515.124.4469	1998-06-03	FI_ACCOUNT	7800	NULL	108	150
113	Luis	Popp	LPOPP	515.124.4567	1999-12-07	FI_ACCOUNT	6900	NULL	108	140
114	Den	Raphaely	DRAPHEAL	515.127.4561	1994-11-08	PU_MAN	11000	NULL	100	30
115	Alexander	Khoo	AKH00	515.127.4562	1995-05-12	PU_CLERK	3100	NULL	114	80
116	Shelli	Baida	SBAIDA	515.127.4563	1997-12-13	PU_CLERK	2900	NULL	114	70
117	Sigal	Tobias	STOBIAS	515.127.4564	1997-09-10	PU_CLERK	2800	NULL	114	30
118	Guy	Himuro	GHIMURO	515.127.4565	1998-01-02	PU_CLERK	2600	NULL	114	60
119	Karen	Colmenares	KCOLMENA	515.127.4566	1999-04-08	PU_CLERK	2500	NULL	114	130
120	Matthew	Weiss	MWEISS	650.123.1234	1996-07-18	ST_MAN	8000	NULL	100	50
121	Adam	Fripp	AFRIPP	650.123.2234	1997-08-09	ST_MAN	8200	NULL	100	50
122	Payam	Kaufling	PKAUFLIN	650.123.3234	1995-05-01	ST_MAN	7900	NULL	100	40
123	Shanta	Vollman	SVOLLMAN	650.123.4234	1997-10-12	ST_MAN	6500	NULL	100	50
124	Kevin	Mourgos	KMOURGOS	650.123.5234	1999-11-12	ST_MAN	5800	NULL	100	80
125	Julia	Nayer	JNAYER	650.124.1214	1997-07-02	ST_CLERK	3200	NULL	120	50
126	Irene	Mikkilineni	IMIKKILI	650.124.1224	1998-11-12	ST_CLERK	2700	NULL	120	50
127	James	Landry	JLANDRY	650.124.1334	1999-01-02	ST_CLERK	2400	NULL	120	90
128	Steven	Markle	SMARKLE	650.124.1434	2000-03-04	ST_CLERK	2200	NULL	120	50
129	Laura	Bissot	LBISSOT	650.124.5234	1997-09-10	ST_CLERK	3300	NULL	121	50
130	Mozhe	Atkinson	MATKINSO	650.124.6234	1997-10-12	ST_CLERK	2800	NULL	121	110

1.Select employees first name, last name, job_id and salary whose first name starts with alphabet S

```
mysql> SELECT first_name, last_name, job_id, salary FROM employees WHERE first_name LIKE 'S%';
 first_name | last_name | job_id | salary |
 Steven
              King
                          AD_PRES
                                      24000
 Shelli
              Baida
                          PU_CLERK
                                       2900
 Sigal
              Tobias
                          PU_CLERK
                                        2800
                          ST_MAN |
ST_CLERK |
 Shanta
              Vollman
                                        6500
 Steven
              Markle
                                       2200
 rows in set (0.08 sec)
mysql> _
```

2. Write a query to select employee with the highest salary(Using inner query)

mysql> SELECT ' -> ORDER B' -> LIMIT 1	salary DESC									
Employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000	NULL .	NULL	20
mysql> mysql> SELECT [*]	FROM employe	ees WHERE sal	lary = (5	SELECT MAX(salar	y) FROM emplo	oyees);		·		
Employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
 				phone_number 515.123.4567		+				

3. Select employee with the second highest salary

Employee_id first_name last_name email phone_number hire_date job_id salary commission_pct manager_id department_id 101 Neena		mysql> SELECT								(SELECT MAX(salary		
101 Neena Kochhar NKOCHHAR 515.123.4568 1989-11-21 AD_VP 17000 NULL 100 20 102 Lex De Haan LDEHAAN 515.123.4569 1993-09-12 AD_VP 17000 NULL 100 30 100		Employee_id					hire_date	job_id	salary	commission_pct	manager_id	department_id
2 rows in set (0.08 sec)				De Haan	LDEHAAN	515.123.4569	1989-11-21 1993-09-12	AD_VP AD_VP	17000 17000	NULL NULL	100 100	20 30
mysql> _		2 rows in set	(0.08 sec)									
	1	mysql> _										

4. Write a query to select employees and their corresponding managers and their salaries

```
mysql> SELECT employee_id, first_name, last_name, manager_id, salary FROM employees;
 employee_id | first_name | last_name | manager_id | salary |
                                                NULL
         100
               Steven
                            King
         101
               Neena
                            Kochhar
                                                 100
                                                        17000
         102
              Lex
                            De Haan
                                                 100
                                                        17000
              Alexander
         103
                            Hunold
                                                 102
                                                         9000
               Bruce
                                                         6000
                            Ernst
         105
             David
                            Austin
                                                 103
                                                         4800
               Valli
                            Pataballa
                                                 103
         106
                                                         4800
         107
               Diana
                            Lorentz
                                                 103
                                                         4200
         108
               Nancy
                            Greenberg
                                                 101
                                                        12000
               Daniel
                            Faviet
                                                 108
                                                         9000
         109
               John
                                                         8200
         110
                            Chen
                                                 108
               Ismael
         111
                            Sciarra
                                                         7700
         112
               Jose Manuel
                            Urman
                                                 108
                                                         7800
         113
              Luis
                                                 108
                            Popp
                                                         6900
                             Raphaely
         114
               Den
                                                 100
                                                        11000
         115
               Alexander
                             Khoo
                                                 114
                                                         3100
               Shelli
                            Baida
         116
                                                 114
                                                         2900
               Sigal
                            Tobias
         117
                                                 114
                                                         2800
         118
             Guy
                            Himuro
                                                 114
                                                         2600
         119
               Karen
                            Colmenares
                                                         2500
         120
              Matthew
                            Weiss
                                                 100
                                                         8000
         121
               Adam
                            Fripp
                                                 100
                                                         8200
                                                 100
         122
               Payam
                             Kaufling
                                                         7900
               Shanta
                            Vollman
                                                 100
                                                         6500
               Kevin
         124
                            Mourgos
                                                 100
                                                         5800
         125
               Julia
                            Nayer
                                                 120
                                                         3200
                            Mikkilineni
         126 | Irene
                                                 120
                                                         2700
         127
             James
                            Landry
                                                 120
                                                         2400
         128 Steven
                                                 120
                                                         2200
                            Markle
         129
                                                 121
                                                         3300
              Laura
                            Bissot
         130 | Mozhe
                            Atkinson
31 rows in set (0.00 sec)
mysql> _
```

5. Write a query to select employees and their corresponding managers and their salaries (SELF Join)

```
mysql> SELECT
   -> CONCAT(emp.first_name, ' ', emp.last_name) employee,
   -> emp.salary emp_sal,
   -> CONCAT(mgr.first_name, ' ' , mgr.last_name) manager,
   -> mgr.salary mgr sal
   -> FROM employees emp
   -> JOIN employees mgr ON
   -> emp.manager_id = mgr.employee_id;
                   emp_sal | manager
 employee
                                                mgr_sal
 Neena Kochhar
                      17000 | Steven King
                                                   24000
 Lex De Haan
                       17000 | Steven King
 Alexander Hunold
                       9000 Lex De Haan
                                                   17000
 Bruce Ernst
                        6000 | Alexander Hunold
                                                    9000
 David Austin
                        4800 | Alexander Hunold
                                                    9000
                       4800 | Alexander Hunold
 Valli Pataballa
                                                    9000
                       4200 | Alexander Hunold
                                                    9000
 Diana Lorentz
 Nancy Greenberg
                       12000
                              Neena Kochhar
                                                   17000
 Daniel Faviet
                        9000 | Nancy Greenberg
                                                   12000
 John Chen
                        8200 Nancy Greenberg
                                                   12000
 Ismael Sciarra
                        7700 | Nancy Greenberg
                                                   12000
 Jose Manuel Urman
                        7800 | Nancy Greenberg
                                                   12000
                        6900
 Luis Popp
                                                   12000
                             Nancy Greenberg
 Den Raphaely
                       11000
                              Steven King
                                                   24000
 Alexander Khoo
                        3100
                              Den Raphaely
                                                   11000
 Shelli Baida
                        2900 | Den Raphaely
                                                   11000
 Sigal Tobias
                        2800 | Den Raphaely
                                                   11000
 Guy Himuro
                        2600 | Den Raphaely
                                                   11000
 Karen Colmenares
                        2500
                              Den Raphaely
                                                   11000
 Matthew Weiss
                        8000
                              Steven King
                                                   24000
 Adam Fripp
                        8200
                              Steven King
                                                   24000
                        7900 | Steven King
                                                   24000
 Payam Kaufling
 Shanta Vollman
                        6500 | Steven King
                                                   24000
 Kevin Mourgos
                        5800 | Steven King
                                                   24000
 Julia Nayer
                        3200 | Matthew Weiss
                                                    8000
 Irene Mikkilineni
                        2700 | Matthew Weiss
                                                    8000
 James Landry
                        2400 | Matthew Weiss
                                                     8000
 Steven Markle
                        2200 | Matthew Weiss
                                                     8000
                        3300 | Adam Fripp
 Laura Bissot
                                                     8200
 Mozhe Atkinson
                        2800 | Adam Fripp
                                                     8200
```

```
ysql> CREATE VIEW EMPLOYEE_MANAGER AS
    -> SELECT
        CONCAT(emp.first_name, ' ' , emp.last_name) employee,
        emp.salary emp_sal,
CONCAT(mgr.first_name, ' ' , mgr.last_name) manager,
        mgr.salary mgr_sal
       FROM employees emp
        JOIN employees mgr ON
-> emp.manager_id = mgr.employee_id;
Query OK, 0 rows affected (0.86 sec)
mysql> SELECT * FROM EMPLOYEE_MANAGER;
                     emp_sal | manager
                                                      mgr_sal
 employee
  Neena Kochhar
                          17000
                                   Steven King
                          17000
                                   Steven King
                                                           24000
  Alexander Hunold
                                   Lex De Haan
                           9000
                                                           17000
                                   Alexander Hunold
  Bruce Ernst
                           6000
                                                            9000
                                   Alexander Hunold
  David Austin
                           4800
                                                            9000
  Valli Pataballa
                           4800
                                   Alexander Hunold
                                                            9000
                           4200
                                   Alexander Hunold
                                                            9000
  Diana Lorentz
  Nancy Greenberg
Daniel Faviet
                          12000
                                   Neena Kochhar
                                                           17000
                           9000
                                   Nancy Greenberg
                                                           12000
                                   Nancy Greenberg
Nancy Greenberg
  John Chen
                           8200
                                                           12000
  Ismael Sciarra
                           7700
                                                           12000
                                   Nancy Greenberg
Nancy Greenberg
  Jose Manuel Urman
                           7800
                                                           12000
  Luis Popp
                           6900
                                                           12000
                                   Steven King
  Den Raphaely
                          11000
                                                           24000
  Alexander Khoo
                           3100
                                   Den Raphaely
                                                           11000
  Shelli Baida
                           2900
                                   Den Raphaely
                                                           11000
  Sigal Tobias
Guy Himuro
                           2800
                                   Den Raphaely
                                                           11000
                           2600
                                   Den Raphaely
  Karen Colmenares
                           2500
                                   Den Raphaely
                                                           11000
  Matthew Weiss
                           8000
                                   Steven King
                                                           24000
                                   Steven King
  Adam Fripp
                           8200
                                                           24000
  Payam Kaufling
                                   Steven King
                                                           24000
                           7900
                           6500
  Shanta Vollman
                                   Steven King
  Kevin Mourgos
                           5800
                                                           24000
                                   Steven King
  Julia Nayer |
Irene Mikkilineni |
                           3200
                                   Matthew Weiss
                                                            8000
                           2700
                                   Matthew Weiss
                                                            8000
  James Landry
Steven Markle
                           2400
                                   Matthew Weiss
                                                            8000
                           2200
                                   Matthew Weiss
                                                            8000
```

7. Write a query to show the count of employees under each manager in descending order(from view)

8. Find the count of employees in each department

```
mysql> SELECT Department_name, COUNT(employee_id) as "Emp_Count"
   -> FROM Departments d
   -> LEFT JOIN employees e ON d.Department_id = e.department_id
   -> GROUP BY d.Department_id, Department_name
   -> ORDER BY Emp_Count DESC;
 Department_name | Emp_Count |
 Shipping
 Purchasing
 Human Resources
 Marketing
 Sales
 Payroll
 Public Relations
 Executive
 Finance
 Accounting
 Corporate Tax
 Control And Credit
 Shareholder Services
 Benefits
 Treasury
16 rows in set (0.40 sec)
mysql> _
```

9.Get the count of employees hired year wise

```
mysql> SELECT YEAR(hire_date) AS "Year", COUNT(*) AS "Hired"
   -> FROM employees
   -> GROUP BY Year
-> ORDER BY Year;
| Year | Hired |
 1987
             1 |
 1989
 1990
             1
 1991
 1993
              1
 1994
  1995
 1996
             1
 1997
             10
 1999
 2000
12 rows in set (0.19 sec)
mysql>
```

10.Create a stored procedure to get the "Get the count of employees hired in the input year" (IN year, OUT count)

11. Select the employees whose first_name contains "an"

mployee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
103	Alexander	Hunold	AHUNOLD	590.423.4567	1990-09-30	IT_PROG	9000	NULL	102	60
107	Diana	Lorentz	DLORENTZ	590.423.5567	1999-02-09	IT_PROG	4200	NULL	103	40
108	Nancy	Greenberg	NGREENBE	515.124.4569	1994-08-17	FI_MGR	12000	NULL	101	100
109	Daniel	Faviet	DFAVIET	515.124.4169	1994-08-12	FI_ACCOUNT	9000	NULL	108	170
112	Jose Manuel	Urman	JMURMAN	515.124.4469	1998-06-03	FI_ACCOUNT	7800	NULL	108	150
115	Alexander	Khoo	AKH00	515.127.4562	1995-05-12	PU_CLERK	3100	NULL	114	80
123	Shanta	Vollman	SVOLLMAN	650.123.4234	1997-10-12	ST_MAN	6500	NULL	100	50

12.Select employee first name and the corresponding phone number in the format(_ _ _)-(_ _ _)-(_ _ _)

```
nysql> SELECT first_name, CONCAT
    -> ('(',SUBSTRING(phone_number,1,3),')-(',SUBSTRING(phone_number,5,3),')-(',SUBSTRING(phone_number,9,4),')') AS 'Phone Number'
 first_name | Phone Number
                   (515)-(123)-(4567)
                   (515)-(123)-(4568)
  Neena
                   (515)-(123)-(4569)
(590)-(423)-(4567)
(590)-(423)-(4568)
  Lex
 Alexander
  Bruce
                   (590)-(423)-(4569)
(590)-(423)-(4560)
 David
  Valli
                  (590) - (423) - (5567)

(590) - (423) - (5567)

(515) - (124) - (4569)

(515) - (124) - (4269)
 Diana
 Nancy
 Daniel
 John
 Ismael | (515)-(124)-(4369)
Jose Manuel | (515)-(124)-(4469)
                   (515)-(124)-(4567)
 Luis
                    (515)-(127)-(4561)
 Den
 Alexander
                   (515)-(127)-(4562)
                   (515)-(127)-(4563)
(515)-(127)-(4564)
 Shelli
 Sigal
                   (515)-(127)-(4565)
(515)-(127)-(4566)
 Guy
 Karen
                   (650)-(123)-(1234)
(650)-(123)-(2234)
 Matthew
 Adam
                  (650)-(123)-(2234)

(650)-(123)-(4234)

(650)-(123)-(5234)

(650)-(124)-(1214)
 Payam
  Shanta
  Julia
                   (650)-(124)-(1224)
(650)-(124)-(1334)
  Irene
                   (650)-(124)-(1434)
(650)-(124)-(5234)
  Steven
                   (650)-(124)-(6234)
 Mozhe
31 rows in set (0.00 sec)
```

13. Find the employees who joined in August, 1994.

```
mysql> SELECT * FROM employees
   -> WHERE MONTH(hire date) = 8
   -> AND YEAR(hire_date) = 1994;
 Employee_id | first_name | last_name | email | phone_number | hire_date | job_id | salary | commission_pct | manager_id | department_id |
                        | Greenberg | NGREENBE | 515.124.4569 | 1994-08-17 | FI MGR | 12000 |
        108 Nancy
                                                                                                 NULL |
                                                                                                               101
                                                                                                                                100
        109 Daniel
                        | Faviet | DFAVIET | 515.124.4169 | 1994-08-12 | FI_ACCOUNT | 9000 |
                                                                                                    NULL
                                                                                                                 108
                                                                                                                                170
2 rows in set (0.04 sec)
mysql>
```

14. Find the maximum salary from each department.

```
mysql> SELECT Department_name,MAX(salary) AS 'Salary'
   -> FROM Departments d
   -> INNER JOIN employees e ON d.Department_id = e.department_id
   -> GROUP BY Department_name;
 .----+
 Department_name | Salary |
            | 24000
| 17000
 Marketing
 Purchasing
 Human Resources 7900
Finance 12000
Payroll
                     9000
 Benefits
 Shareholder Services
                       7800
 Control And Credit
                        5800
 Public Relations
                        2900
 Corporate Tax
                        2500
 Shipping
                        8200
 Executive
                        2400
 Accounting
                        2800
15 rows in set (0.04 sec)
```

15. Write a SQL query to display the 5 least earning employees

Employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
128	Steven	Markle	SMARKLE	650.124.1434	2000-03-04	ST_CLERK	2200	NULL	120	50
127	James	Landry	JLANDRY	650.124.1334	1999-01-02	ST_CLERK	2400	NULL	120	90
119	Karen	Colmenares	KCOLMENA	515.127.4566	1999-04-08	PU_CLERK	2500	NULL	114	130
118	Guy	Himuro	GHIMURO	515.127.4565	1998-01-02	PU_CLERK	2600	NULL	114	60
126	Irene	Mikkilineni	IMIKKILI	650.124.1224	1998-11-12	ST_CLERK	2700	NULL	120	50
rows in set	(0.04 sec)	+								
ysql>										

16. Find the employees hired in the 80s

100 Steven King SKING 515.123.4567 1987-06-17 AD_PRES 24000 NULL NULL NULL NULL NULL NULL NULL 100 NULL 100 NULL 100 NULL NULL	mployee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
				:		!	_	!			20 20
rows in set (0.03 sec)	rows in set	(0.03 sec)				+		+			

17.Find the employees who joined the company after 15th of the month

mployee_id	first_name	last_name	email 	phone_number	hire_date +	Job_id	salary +	commission_pct	manager_id	department_id
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000	NULL	NULL	20
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1989-11-21	AD_VP	17000	NULL	100	20
103	Alexander	Hunold	AHUNOLD	590.423.4567	1990-09-30	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
108	Nancy	Greenberg	NGREENBE	515.124.4569	1994-08-17	FI_MGR	12000	NULL	101	100
120	Matthew	Weiss	MWEISS	650.123.1234	1996-07-18	ST_MAN	8000	NULL	100	50