

## Creating database

```
Command Prompt - mysql -u root -p

mysql> CREATE DATABASE entri_assignment;
Query OK, 1 row affected (0.01 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| ak       |
| classicmodels |
| entri_assignment |
| entriakshay |
| entry    |
| information_schema |
| mysql    |
| newschema |
| performance_schema |
| sample   |
| sys      |
+-----+
11 rows in set (0.00 sec)
```

## Creating tables

```
mysql> USE entri_assignment ;
Database changed
mysql> CREATE TABLE departments
  -> (
  -> Department_id INT PRIMARY KEY ,
  -> Department_name VARCHAR(200),
  -> Location_id INT
  -> );
Query OK, 0 rows affected (0.05 sec)

mysql> SHOW TABLES;
+-----+
| Tables_in_entri_assignment |
+-----+
| departments                 |
+-----+
1 row in set (0.00 sec)
```

cmd Command Prompt - mysql -u root -p

```
mysql> CREATE TABLE employees(  
-> Employee_id INT PRIMARY KEY,  
-> first_name VARCHAR(100),  
-> last_name VARCHAR(100),  
-> email VARCHAR(100),  
-> phone_number VARCHAR(100),  
-> hire_date DATE,  
-> job_id VARCHAR(100),  
-> salary INT,  
-> commission_pct INT,  
-> manager_id INT,  
-> department_id INT,  
-> FOREIGN KEY (department_id) REFERENCES departments(Department_id)  
-> );
```

Query OK, 0 rows affected (0.07 sec)

```
mysql> show tables;
```

```
+-----+  
| Tables_in_entri_assignment |  
+-----+  
| departments                |  
| employees                  |  
+-----+
```

## Inserting values

Command Prompt - mysql -u root -p

+-----+

2 rows in set (0.00 sec)

mysql> INSERT INTO departments VALUES ( 20,'Marketing', 180),

-> ( 30,'Purchasing', 1700),

-> ( 40, 'Human Resources', 2400),

-> ( 50, 'Shipping', 1500),

-> ( 60 , 'IT', 1400),

-> ( 70, 'Public Relations', 2700),

-> ( 80 , 'Sales', 2500 ),

-> ( 90 , 'Executive', 1700),

-> ( 100 , 'Finance', 1700),

-> ( 110 , 'Accounting', 1700),

-> ( 120 , 'Treasury' , 1700),

-> ( 130 , 'Corporate Tax' , 1700 ),

-> ( 140, 'Control And Credit' , 1700),

-> ( 150 , 'Shareholder Services', 1700),

-> ( 160 , 'Benefits', 1700),

-> ( 170 , 'Payroll' , 1700);

Query OK, 16 rows affected (0.02 sec)

Records: 16 Duplicates: 0 Warnings: 0

mysql> SELECT \*FROM departments;

Department_id	Department_name	Location_id
20	Marketing	180
30	Purchasing	1700
40	Human Resources	2400
50	Shipping	1500
60	IT	1400
70	Public Relations	2700
80	Sales	2500
90	Executive	1700
100	Finance	1700
110	Accounting	1700
120	Treasury	1700
130	Corporate Tax	1700
140	Control And Credit	1700
150	Shareholder Services	1700
160	Benefits	1700
170	Payroll	1700

+-----+

16 rows in set (0.00 sec)

```
mysql> INSERT INTO employees VALUES (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),
-> (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', 'AKHOO', '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', 'Frippe', '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);
Query OK, 31 rows affected (0.01 sec)
Records: 31 Duplicates: 0 Warnings: 0
```

```
mysql> SELECT *FROM employees;
```

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
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	AKHOO	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	Frippe	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

31 rows in set (0.00 sec)

1. Select employees first name, last name, job\_id and salary whose first name starts with alphabet S

Command Prompt - mysql -u root -p

```
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
Shanta	Vollman	ST_MAN	6500
Steven	Markle	ST_CLERK	2200

5 rows in set (0.00 sec)

```
mysql> _
```

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

Command Prompt - mysql -u root -p

```
limit 1' at line 2  
mysql> SELECT * FROM employees  
-> ORDER BY salary DESC  
-> LIMIT 1;
```

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

1 row in set (0.00 sec)

```
mysql>
```

```
mysql> SELECT *  
-> FROM employees  
-> WHERE salary = (SELECT MAX(salary) FROM employees);
```

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

1 row in set (0.01 sec)

3. Select employee with the second highest salary

```
mysql> SELECT * FROM employees
-> ORDER BY salary DESC
-> LIMIT 1,1;
```

Employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1989-11-21	AD_VP	17000	NULL	100	20

```
1 row in set (0.00 sec)

mysql>
```

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

```
mysql> select first_name ,last_name ,manager_id,salary from employees;
```

first_name	last_name	manager_id	salary
Steven	King	NULL	24000
Neena	Kochhar	100	17000
Lex	De Haan	100	17000
Alexander	Hunold	102	9000
Bruce	Ernst	103	6000
David	Austin	103	4800
Valli	Pataballa	103	4800
Diana	Lorentz	103	4200
Nancy	Greenberg	101	12000
Daniel	Faviet	108	9000
John	Chen	108	8200
Ismael	Sciarra	108	7700
Jose Manuel	Urman	108	7800
Luis	Popp	108	6900
Den	Raphaely	100	11000
Alexander	Khoo	114	3100
Shelli	Baida	114	2900
Sigal	Tobias	114	2800
Guy	Himuro	114	2600
Karen	Colmenares	114	2500
Matthew	Weiss	100	8000
Adam	Fripp	100	8200
Payam	Kaufling	100	7900
Shanta	Vollman	100	6500
Kevin	Mourgos	100	5800
Julia	Nayer	120	3200
Irene	Mikkilineni	120	2700
James	Landry	120	2400
Steven	Markle	120	2200
Laura	Bissot	121	3300
Mozhe	Atkinson	121	2800

```
31 rows in set (0.00 sec)
```

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

```
cmd Command Prompt - mysql -u root -p
+-----+
30 rows in set (0.00 sec)

mysql> select CONCAT(e.first_name,' ',e.last_name) as employee,
-> CONCAT(m.first_name,' ',m.last_name) as manager ,
-> m.salary
-> from employees m INNER JOIN employees e ON e.Employee_id = m.manager_id ORDER BY employee;
+-----+
| employee          | manager          | salary |
+-----+
| Adam, Fripp       | Laura,Bissot     | 3300   |
| Adam, Fripp       | Mozhe,Atkinson  | 2800   |
| Alexander, Hunold | Bruce,Ernst      | 6000   |
| Alexander, Hunold | David,Austin     | 4800   |
| Alexander, Hunold | Valli,Pataballa  | 4800   |
| Alexander, Hunold | Diana,Lorentz    | 4200   |
| Den, Raphaely     | Alexander,Khoo   | 3100   |
| Den, Raphaely     | Shelli,Baida     | 2900   |
| Den, Raphaely     | Sigal,Tobias     | 2800   |
| Den, Raphaely     | Guy,Himuro       | 2600   |
| Den, Raphaely     | Karen,Colmenares | 2500   |
| Lex, De Haan      | Alexander,Hunold | 9000   |
| Matthew, Weiss    | Julia,Nayer      | 3200   |
| Matthew, Weiss    | Irene,Mikkilineni | 2700   |
| Matthew, Weiss    | James,Landry     | 2400   |
| Matthew, Weiss    | Steven,Markle    | 2200   |
| Nancy, Greenberg  | Daniel,Faviet    | 9000   |
| Nancy, Greenberg  | John,Chen        | 8200   |
| Nancy, Greenberg  | Ismael,Sciarra   | 7700   |
| Nancy, Greenberg  | Jose Manuel,Urman | 7800   |
| Nancy, Greenberg  | Luis,Popp        | 6900   |
| Neena, Kochhar    | Nancy,Greenberg  | 12000  |
| Steven, King      | Neena,Kochhar    | 17000  |
| Steven, King      | Lex,De Haan      | 17000  |
| Steven, King      | Den,Raphaely     | 11000  |
| Steven, King      | Matthew,Weiss    | 8000   |
| Steven, King      | Adam,Fripp       | 8200   |
| Steven, King      | Payam,Kaufling   | 7900   |
| Steven, King      | Shanta,Vollman   | 6500   |
| Steven, King      | Kevin,Mourgos    | 5800   |
+-----+
30 rows in set (0.00 sec)
```

6. Create a view for the above query

```

C:\ Command Prompt - mysql -u root -p
30 rows in set (0.00 sec)

mysql> CREATE VIEW EMPLOYEE_MANAGER AS
-> select CONCAT(e.first_name,' ' ,e.last_name) as employee,
-> CONCAT(m.first_name,' ' ,m.last_name) as manager ,
-> m.salary
-> from employees m INNER JOIN employees e ON e.Employee_id = m.manager_id ORDER BY employee;
Query OK, 0 rows affected (0.02 sec)

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

```

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



```
mysql> SELECT manager, COUNT(employee) as count from EMPLOYEE_MANAGER GROUP BY manager ORDER BY count DESC ;
```

manager	count
Neena,Kochhar	1
Lex,De Haan	1
Alexander,Hunold	1
Bruce,Ernst	1
David,Austin	1
Valli,Pataballa	1
Diana,Lorentz	1
Nancy,Greenberg	1
Daniel,Faviet	1
John,Chen	1
Ismael,Sciarra	1
Jose Manuel,Urman	1
Luis,Popp	1
Den,Raphaely	1
Alexander,Khoo	1
Shelli,Baida	1
Sigal,Tobias	1
Guy,Himuro	1
Karen,Colmenares	1
Matthew>Weiss	1
Adam,Fripp	1
Payam,Kaufling	1
Shanta,Vollman	1
Kevin,Mourgos	1
Julia,Nayer	1
Irene,Mikkilineni	1
James,Landry	1
Steven,Markle	1
Laura,Bissot	1
Mozhe,Atkinson	1

30 rows in set (0.00 sec)

8. Find the count of employees in each department

```
mysql> select department_id, COUNT(employee_id) as employee_count from employees group by department_id;
```

department_id	employee_count
20	2
30	3
40	3
50	7
60	4
70	1
80	2
90	1
100	1
110	1
130	1
140	1
150	1
160	1
170	2

15 rows in set (0.00 sec)

```
mysql> _
```

9. Get the count of employees hired year wise

```
mysql> SELECT YEAR(hire_date),COUNT(Employee_id) from employees GROUP BY hire_date;
```

YEAR(hire_date)	COUNT(Employee_id)
1987	1
1989	1
1993	1
1990	1
1991	1
1997	1
1998	1
1999	1
1994	1
1994	1
1997	1
1997	1
1998	1
1999	1
1994	1
1995	1
1997	1
1997	2
1998	1
1999	1
1996	1
1997	1
1995	1
1997	2
1999	1
1997	1
1998	1
1999	1
2000	1

```
29 rows in set (0.01 sec)
```

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

```
1 row in set (0.00 sec)

Query OK, 0 rows affected (0.01 sec)

mysql> DELIMITER //
mysql> CREATE PROCEDURE EMPLOYEE_COUNT( input_year INT)
    -> BEGIN
    -> SELECT COUNT(*) FROM employees where YEAR(hire_date) = input_year;
    -> END //
Query OK, 0 rows affected (0.01 sec)

mysql> DELIMITER ;
mysql> CALL EMPLOYEE_COUNT(1997);
+-----+
| COUNT(*) |
+-----+
|      10 |
+-----+
1 row in set (0.00 sec)

Query OK, 0 rows affected (0.01 sec)

mysql>
```

11. Select the employees whose first\_name contains "an"

```
mysql> SELECT *FROM employees WHERE first_name LIKE '%an%';
```

Employee_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	NGREENB	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	Urmán	JMURMAN	515.124.4469	1998-06-03	FI_ACCOUNT	7800	NULl	108	150
115	Alexander	Khoo	AKHOO	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

7 rows in set (0.00 sec)

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

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
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

```
2 rows in set (0.01 sec)
```

```
mysql> _
```

14. Find the maximum salary from each department.

```
mysql> SELECT department_id , MAX(salary) from employees group by department_id;
```

department_id	MAX(salary)
20	24000
30	17000
40	7900
50	8200
60	9000
70	2900
80	5800
90	2400
100	12000
110	2800
130	2500
140	6900
150	7800
160	7700
170	9000

```
15 rows in set (0.00 sec)
```

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

```
mysql> SELECT employee , MAX(salary) from employee_manager GROUP BY employee ORDER BY MAX(salary) asc limit 5;
```

employee	MAX(salary)
Den, Raphaely	3100
Matthew, Weiss	3200
Adam, Fripp	3300
Alexander, Hunold	6000
Lex, De Haan	9000

```
5 rows in set (0.00 sec)
```

16. Find the employees hired in the 80s

```
mysql> SELECT* FROM employees WHERE YEAR(hire_date) BETWEEN 1980 AND 1989 ;
```

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
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1989-11-21	AD_VP	17000	NULL	100	20

```
2 rows in set (0.00 sec)

mysql>
```

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

```
mysql> SELECT* FROM employees WHERE DAY(hire_date)>15 ;
```

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
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

```
7 rows in set (0.00 sec)
```

```
mysql>
```