Exercises 2

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

```
nysql> select first_name,last_name,job_id,salary from employees where first_name like '5%';
 first_name | last_name | job_id
                                   | salary |
                          AD PRES
                                       24000
             King
 Steven
 Shelli
                          PU CLERK
              Baida
                                       2988
 Sigal
              Tobias
                          PU_CLERK
                                       2800
 Shanta
              Vollman
                         ST_MAN
                                       6500
                         ST_CLERK
 Steven
             Markle
                                       2200
 rows in set (0.06 sec)
```

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

3. Select employee with the second highest salary

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

mployee		employee_salary		manager_salary		
Geena Kochhar	181	17000	Stemen King	24888	*	
Lex De Haan	182	17999	Steven King	24868		
Alexander Humpld	180	7000	Lex De Haan	17000		
Bruce Erest	184	6999	Alexander Hunold			
David Austin	185	4992				
Welli Petabella	186	4999	Alexander Hunold			
Diana Lorentz	187	4200		9000		
Nancy Greenberg	188	12000	Neena Kachhan	17666		
Daniel Faviet	189	7000		12000		
John Chen	110	8299	Nancy Greenberg	12000		
Ismael Scharra	111	7700	Nancy Greenberg	12000		
Tose Manuel Urman	112	7999	Nance Greenberg	12000		
Luis Popp	113	6900	Nancy Greenberg	12000		
Den Raphaely	114	11999	Steven King	24868		
Alexander Khop	115	3100	Den Raphaely	11866		
Shelli Baida	116	2999	Den Raphaely	11888		
Sigal Tobias	117	2000	Den Raphaely	11866		
Suy Himuro	118	2699	Den Raphaely	11000		
Caren Colmenares	119	2500	Den Raphaely	11866		
Matthew Weiss	129	9999	Steven King	24868		
Adam Fripp	121	8200	Steren King	24866		
Payam Kaufling	122	7999	Steven King	24888		
Shanta Vollman	123	6500	Steren King	24866		
Kevin Mourgos	124	5999	Steven King	24888		
Julia Nayer	125	3200	Matthew Weiss	8666		
Irene Mikkilimemi	126	2799	Matthew Welss	8888		
Dames Landry	127	2499	Matthew Weiss	8866		
Steven Markle	128	2299	Matthew Welss	9999		
Leure Bissot	129	3300	Adam Fripp	8266		
Mozhe Atkinson	130	2999	Adam Fripp	8266		

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

mplayee	employee_id	employee_salary	manager_name	manager_salary			
eena Kochhar	101	17000	Steven King	24998	i		
ex De Haan	182	17000	Steven King	24999			
lexander Hunold	183	9000	Lex De Haan	17999			
huce Erest	104	6000	Alexander Hunold	9000			
axid Austin	185	4800	Alexander Hunold	9000			
Alli Pataballo	106	4899	Alexander Hunold	9999			
Lana Lorentz	187	4299	Alexander Hundld	9999			
lancy Greenberg	109	12000	Neena Kochhan	17000			
aniel faviet	109	7000	Nancy Greenberg	12000			
John Ches	110	8299	Nancy Greenberg	12000			
Ismael Sciarra	111	7799	Nancy Greenberg	12999			
lose Massel Urman	112	7999	Nancy Greenberg	12000			
uls Papp	113	6900	Nancy Greenberg	12000			
on Raphaely	114	11000	Steven King	24999			
lexander khoo	115	3100	Den Raphaely	1,1999			
Shelli Buida	116	2900	Den Raphaely	11000			
sigal Tebias	117	2000	Den Raphaely	11000			
kuy Himuro	118	2699	Den Raphaely	11000			
Caren Colmenares	119	2500	Den Raphaely	1,1999			
Satthew Weiss	120	9999	Steven King	26999			
Adam Fripp	121	0200	Steven King	24000			
Nayam Kasifling	122	7900	Steven King	24999			
Shanta Vollman	123	6599	Steven King	24999			
Cerin Mourgos	124	5999	Steven King	26999			
Tulia Nayer	125	3200	Matthew Meiss	0000			
rene #ikkilineni	126	2700	Matthew Moiss	0999			
lames Landry	127	2400	Mutthew Weiss	9999			
iteses Markle	129	2200	Matthew Welss	9999			
Launa Bissot	129	3300	Adem Fripp	0200			
tarhe Atkinson	130	2000	Adam Fripp	8288			

6. Create a view for the above query

```
mysql) create visw manager_vi AS

-> select concet(e.first_name," ',e.last_name) employee, e.employee_id, e.salary AS employee_salary, concet(m.first_name," ',m.last_name) manager_name,m.salary AS manager_salary from employees a inner join employees m ON e.manager_id = m.employee_id;
Query OK, 8 rows affected (8.12 sec)

mysql>
```

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

8. Find the count of employees in each department

```
sql> select concet(e.first_name,' ',e.last_name) employee_name,d.Department_name from employees e inner join departments d ON e.Department_id-d.department_id order by
epartment name, employee name;
                   Desartment name
emplases same
Maxhe Atkinson
                     Benefits
Ismael Sciarra
Luis Papp
Karen Caimesares
                     Control And Credit
                     Corporate Tax
Dames Landry
Diana Lorentz
                     Human Resources
Payam Kaufling
Walli Pataballa
                     Human Resources
                     Human Respurces
Alexander Humpld
Bruce Erest
David Austin
Guy Himaro
Neena Kochhar
                     Marketing
Steven King
                     Marketing
Daniel Faviet
                     Payroll
                     Pagnall
Public Relations
Odhn Ches
Shelli Balda
Den Raphaely
                     Purchasing
                     Purchasing
Sigal Tobias
Alexander thoo
Kerin Mourgos
                     Sales
                     Shareholder Services
Shipping
Dase Manuel Urman
Adam Fripp
Irene Mikkilineni
                     Shipping
                     Shipping
Dulia Nayer
Laura Bissot
                     Shipping
                     Shipping
Matthew Weiss
Steven Markle
                                                                                                                                               Activate Windows
i raws in set (0.00 sec)
```

9. Get the count of employees hired year wise

```
select COUNT( Employee_id) EMPLOYEE_COUNT, concet(first_name, ' .last_name) NAME, hire_date from employees GROUP BY NAME,hire_date ORDER BY hire_date;
EMPLOYEE_COUNT | NAME
                                     hire_date
                Steven King
                                     1987-86-17
                Neena Kochhar
                                     1989-11-21
             1 | Alexander Hunpld
                                     1998-89-38
                                     1991-85-21
             1 Lex De Haan
                                     1993-89-12
             1 Daniel Fawlet
                                     1994-88-12
                                     1994-86-17
             1 | Nancy Greenberg
             1 | Den Raphaely
1 | Payam Kaufling
                                     1994-11-88
                                     1995-85-81
                Alexander Khoo
                                     1995-85-12
                Matthew Weiss
                                     1996-87-18
                Ismael Sciarra
                David Austin
                                     1997-86-25
                Julia Nayer
                                     1997-87-82
             1 Adam Fripp
                                     1997-88-89
                Sigal Tobias
                                     1997-89-18
             1 Laura Büsset
                                     1997-89-18
             1 | Shanta Vollman
                                     1997-10-12
                                     1997-18-12
                Mozhe Atkinson
                Shelli Baida
                                     1997-12-13
                Guy Himura
                                     1998-81-82
                Valli Pataballa
                                     1998-82-85
                Jose Manuel Urman
Irene Mikkiliseni
                                     1998-86-83
                Diana Lorentz
                                     1999-82-89
                Karen Colmenares
                Kewin Mourges
                                     1999-11-12
             1 | Luis Popp
1 | Stemen Markle
                                     1999-12-07
                                     2000-03-04
```

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"

```
nysql> SELECT first_name,last_name from employees where first_name like "%an%" order by first_name;
 first_name | last_name |
Alexander
               Hunold
 Alexander
               Khoo
 Daniel
               Faviet
               Lorentz
 Diana
 Jose Manuel
               Urman
               Greenberg
 Nancy
 Shanta
               Vollman
 rows in set (0.84 sec)
```

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

```
er by first_same;
 first_name | PHONE_NUMBER
Alexander
                              (515) - (124) - (416)
(500) - (423) - (456)
(515) - (127) - (456)
Daniel
                              (590) - (423) - (556)
                              (515) -(127) -(456)
(658) -(124) -(122)
(515) -(124) -(436)
Ismael
                              (658) -(124) -(133)
(515) -(124) -(426)
Dose Manuel
Dulla
                              (658) -(124) -(121)
(515) -(127) -(456)
Kanen
Kexîn
                             (650) - (121) - (523)
(650) - (124) - (523)
(650) - (124) - (456)
(515) - (124) - (456)
 Launa
                              (658) -(123) -(123)
(658) -(124) -(623)
Mazhe
                             (515) -(124) -(456)
(515) -(123) -(456)
(658) -(123) -(323)
Neena
                             (650) - (123) - (423)
(515) - (127) - (456)
 Shanta
                             (515) -(127) -(456)
(515) -(123) -(456)
(658) -(124) -(143)
                             (598) - (423) - (456)
                                                                                                                                                                                                                                                                                        Activate Windows
```

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

imployee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
		Faviet	NGREENBE@gmail.com DFAVIET@gmail.com	515.124.4169	1994-88-12	FI_ACCOUNT		NULL	188	178

14. Find the maximum salary from each department.

epartment_name	each_salary				
Marketing	24868				
Purchasing	17969				
IT	9868				
luman Resources	7968				
inance	12969				
agroll	9868				
enefits	7788				
Shareholder Services	7866				
Cantral And Credit	6988				
Sales	5868				
Public Relations	2968				
Corporate Tax	2588				
shipping	8288				
xecutive	2488				
Accounting	2888				Activate Windov

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

ployee_id	first_name	last_name	ensil	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
118	Guy	Himuro	GHIMURO@gmail.com	515.127.4565	1998-01-02	PU_CLERK	2688	NULL	114	69
119	Karen	Colmenares	KCOLMENA@gmail.com	515.127.4566	1999-64-68	PU_CLERK	2588	MULL	114	130
126	Irene	Mikkilineni	IMIKKILI@gmail.com	650.124.1224	1998-11-12	ST_CLERK	2788	MULL	120	58
127	James	Landry	JLANDRY@gmail.com	658.124.1334	1999-01-02	ST_CLERK	2488	MULL	129	98
128	Steven	Markle	SMARKLE@gmail.com	658.124.1434	2898-83-84	ST_CLERK	2288	NULL	129	58

16. Find the employees hired in the 80s



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

