## Lab Activity 10

Name : Gauri Gaikwad

Q 1. Create table employee

create table employee(employee\_id int(6), last\_name varchar(25), job\_id varchar(10), salary double(8,2), comm\_pct double(4,2), mgr\_id int(6), department\_id int(4));

desc employee;

+---------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------------+-------------+------+-----+---------+-------+

| employee\_id | int | YES | | NULL | |

| last\_name | varchar(25) | YES | | NULL | |

| job\_id | varchar(10) | YES | | NULL | |

| salary | double(8,2) | YES | | NULL | |

| comm\_pct | double(4,2) | YES | | NULL | |

| mgr\_id | int | YES | | NULL | |

| department\_id | int | YES | | NULL | |

+---------------+-------------+------+-----+---------+-------+

Q 2. Insert the following data into EMPLOYEE table

mysql> insert into employee(employee\_id,last\_name,job\_id,salary,comm\_pct,mgr\_id,department\_id) values(198,'Connell','SH\_CLERK',2600,2.5,124,50);

Query OK, 1 row affected (0.02 sec)

mysql> insert into employee(employee\_id,last\_name,job\_id,salary,comm\_pct,mgr\_id,department\_id) values(199,'Grant','SH\_CLERK',2600,2.2,124,50);

Query OK, 1 row affected (0.01 sec)

mysql> insert into employee(employee\_id,last\_name,job\_id,salary,comm\_pct,mgr\_id,department\_id) values(200,'Whalen','AD\_ASST',4400,1.3,101,10);

Query OK, 1 row affected (0.00 sec)

mysql> insert into employee(employee\_id,last\_name,job\_id,salary,comm\_pct,mgr\_id,department\_id) values(201,'Hartstein','IT\_PROG',6000,null,100,20);

Query OK, 1 row affected (0.01 sec)

mysql> insert into employee(employee\_id,last\_name,job\_id,salary,comm\_pct,mgr\_id,department\_id) values(202,'Fay','AC\_MGR',6500,null,210,20);

Query OK, 1 row affected (0.00 sec)

mysql> insert into employee(employee\_id,last\_name,job\_id,salary,comm\_pct,mgr\_id,department\_id) values(203,'Mavris','AD\_VP',7500,null,101,40);

Query OK, 1 row affected (0.00 sec)

mysql> insert into employee(employee\_id,last\_name,job\_id,salary,comm\_pct,mgr\_id,department\_id) values(204,'Baer','AD\_PRES',3500,1.5,101,90);

Query OK, 1 row affected (0.01 sec)

mysql> insert into employee(employee\_id,last\_name,job\_id,salary,comm\_pct,mgr\_id,department\_id) values(205,'Higgins','AC\_MGR',2300,null,101,60);

Query OK, 1 row affected (0.00 sec)

mysql> insert into employee(employee\_id,last\_name,job\_id,salary,comm\_pct,mgr\_id,department\_id) values(206,'Gitz','IT\_PROG',5000,null,103,60);

Query OK, 1 row affected (0.00 sec)

mysql> insert into employee(employee\_id,last\_name,job\_id,salary,comm\_pct,mgr\_id,department\_id) values(100,'King','AD\_ASST',8956,0.3,108,100);

Query OK, 1 row affected (0.01 sec)

mysql> insert into employee(employee\_id,last\_name,job\_id,salary,comm\_pct,mgr\_id,department\_id) values(101,'Kochar','SH\_CLERK',3400,1.3,118,30);

Query OK, 1 row affected (0.00 sec)

mysql> select \* from employee;

+-------------+-----------+----------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+----------+---------+----------+--------+---------------+

| 198 | Connell | SH\_CLERK | 2600.00 | 2.50 | 124 | 50 |

| 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 |

| 200 | Whalen | AD\_ASST | 4400.00 | 1.30 | 101 | 10 |

| 201 | Hartstein | IT\_PROG | 6000.00 | NULL | 100 | 20 |

| 202 | Fay | AC\_MGR | 6500.00 | NULL | 210 | 20 |

| 203 | Mavris | AD\_VP | 7500.00 | NULL | 101 | 40 |

| 204 | Baer | AD\_PRES | 3500.00 | 1.50 | 101 | 90 |

| 205 | Higgins | AC\_MGR | 2300.00 | NULL | 101 | 60 |

| 206 | Gitz | IT\_PROG | 5000.00 | NULL | 103 | 60 |

| 100 | King | AD\_ASST | 8956.00 | 0.30 | 108 | 100 |

| 101 | Kochar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 |

+-------------+-----------+----------+---------+----------+--------+---------------+

Q 3. Display last\_name, job\_id, employee\_id for each employee with employee\_id appearing first.

mysql> select employee\_id,last\_name,job\_id from employee;

+-------------+-----------+----------+

| employee\_id | last\_name | job\_id |

+-------------+-----------+----------+

| 198 | Connell | SH\_CLERK |

| 199 | Grant | SH\_CLERK |

| 200 | Whalen | AD\_ASST |

| 201 | Hartstein | IT\_PROG |

| 202 | Fay | AC\_MGR |

| 203 | Mavris | AD\_VP |

| 204 | Baer | AD\_PRES |

| 205 | Higgins | AC\_MGR |

| 206 | Gitz | IT\_PROG |

| 100 | King | AD\_ASST |

| 101 | Kochar | SH\_CLERK |

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Q 4. Display the details of all employees of department 60.

mysql> select \* from employee where department\_id=60;

+-------------+-----------+---------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+---------+---------+----------+--------+---------------+

| 205 | Higgins | AC\_MGR | 2300.00 | NULL | 101 | 60 |

| 206 | Gitz | IT\_PROG | 5000.00 | NULL | 103 | 60 |

+-------------+-----------+---------+---------+----------+--------+---------------+

Q 5. Display the employee details of the employee who’s last\_name is King.

mysql> select \* from employee where last\_name like 'k\_\_g';

+-------------+-----------+---------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+---------+---------+----------+--------+---------------+

| 100 | King | AD\_ASST | 8956.00 | 0.30 | 108 | 100 |

+-------------+-----------+---------+---------+----------+--------+---------------+

Q 6. Display unique job\_id from EMPLOYEE table. Give alias name to the column as JOB\_TITLE.

mysql> select distinct(job\_id) as job\_title from employee;

+-----------+

| job\_title |

+-----------+

| SH\_CLERK |

| AD\_ASST |

| IT\_PROG |

| AC\_MGR |

| AD\_VP |

| AD\_PRES |

+-----------+

Q 7. Display last\_name, salary and salary increase of Rs300. Give the new column name as ‘Increased Salary’.

mysql> select last\_name,salary,(salary+300) as increased\_salary from employee;

+-----------+---------+------------------+

| last\_name | salary | increased\_salary |

+-----------+---------+------------------+

| Connell | 2600.00 | 2900.00 |

| Grant | 2600.00 | 2900.00 |

| Whalen | 4400.00 | 4700.00 |

| Hartstein | 6000.00 | 6300.00 |

| Fay | 6500.00 | 6800.00 |

| Mavris | 7500.00 | 7800.00 |

| Baer | 3500.00 | 3800.00 |

| Higgins | 2300.00 | 2600.00 |

| Gitz | 5000.00 | 5300.00 |

| King | 8956.00 | 9256.00 |

| Kochar | 3400.00 | 3700.00 |

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Q 8. Display last\_name, salary and annual compensation of all employees, plus a onetime bonus of Rs 100. Give an alias name to the column displaying annual compensation.

mysql> select last\_name,salary,(salary\*12)+12 as 'annual\_compensation' from employee;

+-----------+---------+---------------------+

| last\_name | salary | annual\_compensation |

+-----------+---------+---------------------+

| Connell | 2600.00 | 31212.00 |

| Grant | 2600.00 | 31212.00 |

| Whalen | 4400.00 | 52812.00 |

| Hartstein | 6000.00 | 72012.00 |

| Fay | 6500.00 | 78012.00 |

| Mavris | 7500.00 | 90012.00 |

| Baer | 3500.00 | 42012.00 |

| Higgins | 2300.00 | 27612.00 |

| Gitz | 5000.00 | 60012.00 |

| King | 8956.00 | 107484.00 |

| Kochar | 3400.00 | 40812.00 |

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Q 9. Display the details of those employees who get commission.

mysql> select \* from employee where comm\_pct is not null;

+-------------+-----------+----------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+----------+---------+----------+--------+---------------+

| 198 | Connell | SH\_CLERK | 2600.00 | 2.50 | 124 | 50 |

| 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 |

| 200 | Whalen | AD\_ASST | 4400.00 | 1.30 | 101 | 10 |

| 204 | Baer | AD\_PRES | 3500.00 | 1.50 | 101 | 90 |

| 100 | King | AD\_ASST | 8956.00 | 0.30 | 108 | 100 |

| 101 | Kochar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 |

+-------------+-----------+----------+---------+----------+--------+---------------+

Q 10. Display the details of those employees who do not get commission.

mysql> select \* from employee where comm\_pct is null;

+-------------+-----------+---------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+---------+---------+----------+--------+---------------+

| 201 | Hartstein | IT\_PROG | 6000.00 | NULL | 100 | 20 |

| 202 | Fay | AC\_MGR | 6500.00 | NULL | 210 | 20 |

| 203 | Mavris | AD\_VP | 7500.00 | NULL | 101 | 40 |

| 205 | Higgins | AC\_MGR | 2300.00 | NULL | 101 | 60 |

| 206 | Gitz | IT\_PROG | 5000.00 | NULL | 103 | 60 |

+-------------+-----------+---------+---------+----------+--------+---------------+

Q 11. Display the Employee\_id, Department\_id and Salary all employees whose salary is greater than 5000.

mysql> select employee\_id,department\_id,salary from employee where salary>=5000;

+-------------+---------------+---------+

| employee\_id | department\_id | salary |

+-------------+---------------+---------+

| 201 | 20 | 6000.00 |

| 202 | 20 | 6500.00 |

| 203 | 40 | 7500.00 |

| 206 | 60 | 5000.00 |

| 100 | 100 | 8956.00 |

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Q 12. Display the Last\_Name and Salary of all employees whose salary is between 4000 and 7000.

mysql> select last\_name,salary from employee where salary>=4000 and salary<=7000;

+-----------+---------+

| last\_name | salary |

+-----------+---------+

| Whalen | 4400.00 |

| Hartstein | 6000.00 |

| Fay | 6500.00 |

| Gitz | 5000.00 |

+-----------+---------+

Q 13. Display the details of all employees whose salary is either 6000 or 6500 or 7000.

mysql> select \* from employee where salary in(6000,6500,7000);

+-------------+-----------+---------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+---------+---------+----------+--------+---------------+

| 201 | Hartstein | IT\_PROG | 6000.00 | NULL | 100 | 20 |

| 202 | Fay | AC\_MGR | 6500.00 | NULL | 210 | 20 |

+-------------+-----------+---------+---------+----------+--------+---------------+

Q 14. Display the details of all those employees who work either in department 10 or 20 or 30 or 50.

mysql> select \* from employee where department\_id in(10,20,30,50);

+-------------+-----------+----------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+----------+---------+----------+--------+---------------+

| 198 | Connell | SH\_CLERK | 2600.00 | 2.50 | 124 | 50 |

| 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 |

| 200 | Whalen | AD\_ASST | 4400.00 | 1.30 | 101 | 10 |

| 201 | Hartstein | IT\_PROG | 6000.00 | NULL | 100 | 20 |

| 202 | Fay | AC\_MGR | 6500.00 | NULL | 210 | 20 |

| 101 | Kochar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 |

+-------------+-----------+----------+---------+----------+--------+---------------+

Q 15. Display the details of all employees whose salary is not equal to 5000.

mysql> select \* from employee where salary!=5000;

+-------------+-----------+----------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+----------+---------+----------+--------+---------------+

| 198 | Connell | SH\_CLERK | 2600.00 | 2.50 | 124 | 50 |

| 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 |

| 200 | Whalen | AD\_ASST | 4400.00 | 1.30 | 101 | 10 |

| 201 | Hartstein | IT\_PROG | 6000.00 | NULL | 100 | 20 |

| 202 | Fay | AC\_MGR | 6500.00 | NULL | 210 | 20 |

| 203 | Mavris | AD\_VP | 7500.00 | NULL | 101 | 40 |

| 204 | Baer | AD\_PRES | 3500.00 | 1.50 | 101 | 90 |

| 205 | Higgins | AC\_MGR | 2300.00 | NULL | 101 | 60 |

| 100 | King | AD\_ASST | 8956.00 | 0.30 | 108 | 100 |

| 101 | Kochar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 |

+-------------+-----------+----------+---------+----------+--------+---------------+

Q 16. Display the details of all the CLERKS working in the organization.

mysql> select \* from employee where job\_id='SH\_CLERK';

+-------------+-----------+----------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+----------+---------+----------+--------+---------------+

| 198 | Connell | SH\_CLERK | 2600.00 | 2.50 | 124 | 50 |

| 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 |

| 101 | Kochar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 |

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Q 17. Update the job\_id’s of the employees who earn more than 5000 to Grade\_A. Display the table EMPLOYEE after updating.

mysql> select job\_id as 'Grade\_A' from employee where salary>5000;

+---------+

| Grade\_A |

+---------+

| IT\_PROG |

| AC\_MGR |

| AD\_VP |

| AD\_ASST |

+---------+

4 rows in set (0.00 sec)

Q 18. Display the details of all those employees who are either CLERK or PROGRAMMER or ASSISTANT.

mysql> select \* from employee where job\_id='sh\_clerk' OR 'it\_prog' OR 'Ad\_asst';

+-------------+-----------+----------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+----------+---------+----------+--------+---------------+

| 198 | Connell | SH\_CLERK | 2600.00 | 2.50 | 124 | 50 |

| 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 |

| 101 | Kochar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 |

+-------------+-----------+----------+---------+----------+--------+---------------+

Q 19. Display those employees from the EMPLOYEE table whose designation is CLERK and salary is less than 3000.

mysql> select \* from employee where job\_id='sh\_clerk' AND salary<3000;

+-------------+-----------+----------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+----------+---------+----------+--------+---------------+

| 198 | Connell | SH\_CLERK | 2600.00 | 2.50 | 124 | 50 |

| 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 |

+-------------+-----------+----------+---------+----------+--------+---------------+

Q 20. Display those employees Last\_Name, Mgr\_id from the EMPLOYEE table whose salary is above 3000 and work under Manager 101.

mysql> select last\_name,mgr\_id from employee where salary>3000 and mgr\_id=101;

+-----------+--------+

| last\_name | mgr\_id |

+-----------+--------+

| Whalen | 101 |

| Mavris | 101 |

| Baer | 101 |

+-----------+--------+