**Tuesday Assignment**

1. **Create table EMPLOYEE with the following details.**

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

1. **Insert the following data into EMPLOYEE table.**

* insert into employee values(198, 'Connell', 'SH\_CLERK', 2600, 2.5, 124, 50);
* insert into employee values(199, 'Grant', 'SH\_CLERK', 2600, 2.2, 124, 50);
* insert into employee values(200, 'Whalen', 'AD\_ASST', 4400, 1.3, 101, 10);
* insert into employee values(201, 'Hartstein', 'IT\_PROG', 6000, null, 100, 20);
* insert into employee values(202, 'Fay', 'AC\_MGR', 6500, null, 210, 20);
* insert into employee values(203, 'Mavris', 'AD\_VP', 7500, null, 101, 40);
* insert into employee values(204, 'Baer', 'AD\_PRES', 3500, 1.5, 101, 90);
* insert into employee values(205, 'Higgins', 'AD\_MGR', 2300, null, 101, 60);
* insert into employee values(206, 'Gitz', 'IT\_PROG', 5000, null, 103, 60);
* insert into employee values(100, 'King', 'AD\_ASST', 8956, 0.3, 108, 100);
* insert into employee values(101, 'Kochar', 'SH\_CLERK', 3400, 1.3, 118, 30);

Output:

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

| 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 | AD\_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 |

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1. **Display last\_name, job\_id, employee\_id for each employee with employee\_id appearing first.**

* Select employee\_id, last\_name, job\_id from employee;

Output:

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

| 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 | AD\_MGR |

| 206 | Gitz | IT\_PROG |

| 100 | King | AD\_ASST |

| 101 | Kochar | SH\_CLERK |

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1. **Display the details of all employees of department 60.**

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

Output:

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

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

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

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

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

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

1. **Display the employee details of the employee who’s last\_name is King.**

* select \* from employee where last\_name='king';

Output:

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

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

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

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

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

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

* select job\_id as 'job\_title' from employee;

Output:

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

| job\_title |

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

| SH\_CLERK |

| SH\_CLERK |

| AD\_ASST |

| IT\_PROG |

| AC\_MGR |

| AD\_VP |

| AD\_PRES |

| AD\_MGR |

| IT\_PROG |

| AD\_ASST |

| SH\_CLERK |

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

* select last\_name, salary, salary+300 as 'increased\_salary' from employee;

Output:

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

| 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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1. **Display the details of those employees who get commission.**

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

Output:

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

| 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 |

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

1. **Display the details of those employees who do not get commission.**

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

Output:

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

| 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 | AD\_MGR | 2300.00 | NULL | 101 | 60 |

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

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

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

Output:

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

| 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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1. **Display the Last\_Name and Salary of all employees whose salary is between 4000 and 7000.**

* select employee\_id, department\_id, salary from employee where salary between 4000 and 7000;

Output:

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

| employee\_id | department\_id | salary |

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

| 200 | 10 | 4400.00 |

| 201 | 20 | 6000.00 |

| 202 | 20 | 6500.00 |

| 206 | 60 | 5000.00 |

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1. **Display the details of all employees whose salary is either 6000 or 6500 or 7000.**

* select employee\_id, department\_id, salary from employee where salary in (6000,6500,7000);

Output:

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

| employee\_id | department\_id | salary |

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

| 201 | 20 | 6000.00 |

| 202 | 20 | 6500.00 |

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

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

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

Output:

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

| 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 |

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

1. **Display the details of all employees whose salary is not equal to 5000.**

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

Output:

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

| 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 | AD\_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 |

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1. **Display the details of all the CLERKS working in the organization.**

* select \* from employee where job\_id like'%clerk%';

Output:

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

| 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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1. **Update the job\_id’s of the employees who earn more than 5000 to Grade\_A. Display the table EMPLOYEE after updating.**

* update employee set job\_id='Grade\_A' where salary>5000;
* select \* from employee;

Output:

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

| 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 | Grade\_A | 6000.00 | NULL | 100 | 20 |

| 202 | Fay | Grade\_A | 6500.00 | NULL | 210 | 20 |

| 203 | Mavris | Grade\_A | 7500.00 | NULL | 101 | 40 |

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

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

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

| 100 | King | Grade\_A | 8956.00 | 0.30 | 108 | 100 |

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

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1. **Display the details of all those employees who are either CLERK or PROGRAMMER or ASSISTANT.**

* select \* from employee where job\_id in ('sh\_clerk', 'it\_prog', 'ad\_asst');

Output:

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

| 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 |

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

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

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

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

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

Output:

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

| 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 |

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

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

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

Output:

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

| last\_name | mgr\_id |

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

| Whalen | 101 |

| Mavris | 101 |

| Baer | 101 |

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