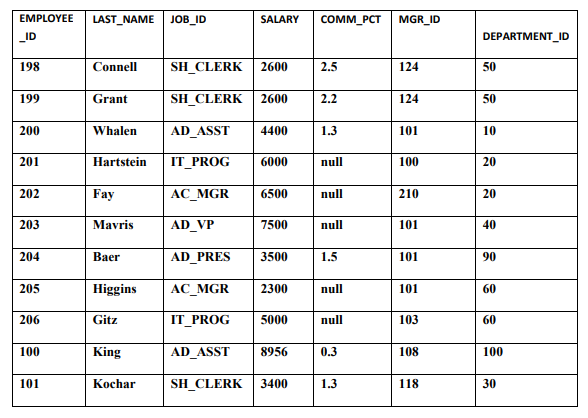
1. Create table EMPLOYEE with the following details.

|  |  |
| --- | --- |
| FIELD NAME | TYPE |
| EMPLOYEE\_ID | **NUMBER(6)** |
| LAST\_NAME | **VARCHAR(25)** |
| JOB\_ID | **VARCHAR(20)** |
| SALARY | **NUMBER(8,2)** |
| COMM\_ID | **NUMBER(4,2)** |
| MGR\_ID | **NUMBER(6)** |
| DEPARTMENT\_ID | **NUMBER(4)** |

* create table employee(employee\_id int(6), last\_name varchar(25), job\_id varchar(10), salary decimal(8,2), comm\_pct decimal(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(employee\_id, last\_name, job\_id, salary,mgr\_id, department\_id) values(201,'Hartstein','IT\_PROG',6000,100,20);
* insert into employee(employee\_id, last\_name, job\_id, salary,mgr\_id, department\_id) values(202,'Fay','AC\_MGR',6500,210,20),(203,'Mavris','AD\_VP',7500,101,40);
* insert into employee values(204,'Baer','AD\_PRES',3500,1.5,101,90);
* insert into employee(employee\_id, last\_name, job\_id, salary,mgr\_id, department\_id) values(205,'Higgins','AC\_MGR',2300,101,60),(206,'Gitz','IT\_PROG',5000,103,60);
* 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);

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;

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

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

* 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 |

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

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

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

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

| 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 distinct(job\_id) as JOB\_TITLE from employee;

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

| JOB\_TITLE |

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

| SH\_CLERK |

| AD\_ASST |

| IT\_PROG |

| AC\_MGR |

| AD\_VP |

| AD\_PRES |

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

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;

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

| 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 |

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

1. 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.

* select last\_name, salary, ((salary\*12)+100) as annual\_compensation from employee;

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

| last\_name | salary | annual\_compensation |

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

| Connell | 2600.00 | 31300.00 |

| Grant | 2600.00 | 31300.00 |

| Whalen | 4400.00 | 52900.00 |

| Hartstein | 6000.00 | 72100.00 |

| Fay | 6500.00 | 78100.00 |

| Mavris | 7500.00 | 90100.00 |

| Baer | 3500.00 | 42100.00 |

| Higgins | 2300.00 | 27700.00 |

| Gitz | 5000.00 | 60100.00 |

| King | 8956.00 | 107572.00 |

| Kochar | 3400.00 | 40900.00 |

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

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

* 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 |

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

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

* 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 |

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

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;

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

| employee\_id | department\_id | salary |

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

| 201 | 20 | 6000.00 |

| 202 | 20 | 6500.00 |

| 203 | 40 | 7500.00 |

| 100 | 100 | 8956.00 |

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

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

* 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 |

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

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

* select \* from employee where salary=6000 or salary=6500 or salary=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 |

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

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);

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

| 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;

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

| 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 |

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

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

* select \* from employee where job\_id like('%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 |

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

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;

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

| 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 | AC\_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 |

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

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');

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

| 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;

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

| 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;

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

| last\_name | mgr\_ID |

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

| Whalen | 101 |

| Mavris | 101 |

| Baer | 101 |

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