create database assesment;

use assesment;

create table Worker (

worker\_id int primary key,

First\_name varchar(50),

Last\_name varchar(50),

Salary int,

Joining\_date datetime,

Department varchar(10)

);

insert into Worker values (1, "Monika", "Arora", 100000, '2014-02-20 9:00:00', "HR");

insert into Worker values (2, "Niharika", "Verma", 80000, '2014-06-11 9:00:00', "Admin");

insert into Worker values (3, "Vishal", "Singhal", 300000, '2014-02-20 9:00:00', "HR");

insert into Worker values (4, "Amitabh", "Singh", 500000, '2014-02-20 9:00:00', "Admin");

insert into Worker values (5, "Vivek", "Bhati", 500000, '2014-06-11 9:00:00', "Admin");

insert into Worker values (6, "Vipul", "Diwan", 200000, '2014-06-11 9:00:00', "Account");

insert into Worker values (7, "Satish", "Kumar", 75000, '2014-01-20 9:00:00', "Account");

insert into Worker values (8, "Geetika", "Chauhan", 90000, '2014-04-11 9:00:00', "Admin");

* select \* from Worker where First\_name = "Vipul";

worker\_id, First\_name, Last\_name, Salary, Joining\_date, Department

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | 6 | Vipul | Diwan | 200000 | 2014-06-11 09:00:00 | Account |

* select worker\_id, First\_name, Last\_name, Salary, Joining\_date, Department from Worker where First\_name = "Vipul" ;

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 6 | Vipul | Diwan | 200000 | 2014-06-11 09:00:00 | Account |

* select worker\_id, First\_name, Last\_name, Salary, Joining\_date, Department from Worker where First\_name = "Satish";

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 7 | Satish | Kumar | 75000 | 2014-01-20 09:00:00 | Account |

* SELECT \* FROM worker WHERE LENGTH(First\_name) = 6 AND First\_name LIKE '%h';

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 7 | Satish | Kumar | 75000 | 2014-01-20 09:00:00 | Account |

* select \* from worker where Salary between 1 and 100000;

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | Monika | Arora | 100000 | 2014-02-20 09:00:00 | HR |
| 2 | Niharika | Verma | 80000 | 2014-06-11 09:00:00 | Admin |
| 7 | Satish | Kumar | 75000 | 2014-01-20 09:00:00 | Account |
| 8 | Geetika | Chauhan | 90000 | 2014-04-11 09:00:00 | Admin |

* select First\_name, Last\_name, count(\*) from worker Group By First\_name, Last\_name having count(\*)> 1;

Null

* select \* from worker Limit 6 ;

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | Monika | Arora | 100000 | 2014-02-20 09:00:00 | HR |
| 2 | Niharika | Verma | 80000 | 2014-06-11 09:00:00 | Admin |
| 3 | Vishal | Singhal | 300000 | 2014-02-20 09:00:00 | HR |
| 4 | Amitabh | Singh | 500000 | 2014-02-20 09:00:00 | Admin |
| 5 | Vivek | Bhati | 500000 | 2014-06-11 09:00:00 | Admin |
| 6 | Vipul | Diwan | 200000 | 2014-06-11 09:00:00 | Account |

* SELECT Department, COUNT(\*) AS NumEmployees FROM worker

GROUP BY Department HAVING COUNT(\*) < 5;

|  |  |
| --- | --- |
| HR | 2 |
| Admin | 4 |
| Account | 2 |

* select Department, count(\*) as NumEmployees from worker group by Department;

|  |  |
| --- | --- |
| HR | 2 |
| Admin | 4 |
| Account | 2 |

* SELECT Department, First\_name, Last\_name, Salary FROM worker W

WHERE Salary = (

SELECT MAX(Salary)

FROM worker

WHERE Department = W.Department

);

|  |  |  |  |
| --- | --- | --- | --- |
| HR | Vishal | Singhal | 300000 |
| Admin | Amitabh | Singh | 500000 |
| Admin | Vivek | Bhati | 500000 |
| Account | Vipul | Diwan | 200000 |

#Q2 Assement

create table student (

StdId Int Primary Key,

StdName varchar(30),

Sex varchar(10),

Percentage int,

class int,

Sec varchar(5),

S\_Stream varchar(20),

DOB date

);

insert into student values (1001, "Surekha Joshi", "Female", 82, 12, "A", "Science", '1998-03-8');

insert into student values (1002, "MAAHI AGRAWAL", "Female", 56, 11, "C", "Commerce", '2008-11-23');

insert into student values (1003, "Sanam Verma", "Male", 59, 11, "C","Commerce", '2006-06-29');

insert into student values (1004, "Ronit Kumar", "Male", 63, 11, "C", "Commerce", '1997-11-05');

insert into student values (1005, "Dipesh Pulkit", "Male", 78, 11, "B", "Science", '2003-09-14');

insert into student values (1006, "JAHANVI Puri", "Female", 60, 11, "B", "Commerce", '2008-11-07');

insert into student values (1007, "Sanam Kumar", "Male", 23, 12, "F", "Commerce", '1998-03-08');

insert into student values (1008, "SAHIL SARAS", "Male", 56, 11, "C", "Commerce", '2008-11-07');

insert into student values (1009, "AKSHRA AGARWAL", "Female", 72, 12, "B", "Commerce", '1996-10-01');

insert into student values (1010, "STUTI MISHRA", "Female", 39, 11, "F", "Science", '2008-11-23');

insert into student values (1011, "HARSH AGGARWAL ", "Male", 42, 11, "C", "Science", '1998-03-08');

insert into student values (1012, "NIKUNJ AGGARWAL", "Male", 49, 12, "C", "Commerce", '1998-06-28');

insert into student values (1013, "AKRITI SAKSENA", "Female", 89, 12, "A", "Science", '2008-11-23');

insert into student values (1014, "TANI RASTOGI", "Female", 82, 12, "A", "Science", '2008-11-23');

1 To display all the records form STUDENT table: select \* from student;

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1001 | Surekha Joshi | Female | 82 | 12 | A | Science | 1998-08-03 |
| 1002 | MAAHI AGRAWAL | Female | 56 | 11 | C | Commerce | 2008-11-23 |
| 1003 | Sanam Verma | Male | 59 | 11 | C | Commerce | 2006-06-29 |
| 1004 | Ronit Kumar | Male | 63 | 11 | C | Commerce | 1997-11-05 |
| 1005 | Dipesh Pulkit | Male | 78 | 11 | B | Science | 2003-09-14 |
| 1006 | JAHANVI Puri | Female | 60 | 11 | B | Commerce | 2008-11-07 |
| 1007 | Sanam Kumar | Male | 23 | 12 | F | Commerce | 1998-03-08 |
| 1008 | SAHIL SARAS | Male | 56 | 11 | C | Commerce | 2008-11-07 |
| 1009 | AKSHRA AGARWAL | Female | 72 | 12 | B | Commerce | 1996-10-01 |
| 1010 | STUTI MISHRA | Female | 39 | 11 | F | Science | 2008-11-23 |
| 1011 | HARSH AGGARWAL | Male | 42 | 11 | C | Science | 1998-03-08 |
| 1012 | NIKUNJ AGGARWAL | Male | 49 | 12 | C | Commerce | 1998-06-28 |
| 1013 | AKRITI SAKSENA | Female | 89 | 12 | A | Science | 2008-11-23 |
| 1014 | TANI RASTOGI | Female | 82 | 12 | A | Science | 2008-11-23 |

2. To display any name and date of birth from the table STUDENT: select StdName, DOB from student;

|  |  |
| --- | --- |
| Surekha Joshi | 1998-08-03 |
| MAAHI AGRAWAL | 2008-11-23 |
| Sanam Verma | 2006-06-29 |
| Ronit Kumar | 1997-11-05 |
| Dipesh Pulkit | 2003-09-14 |
| JAHANVI Puri | 2008-11-07 |
| Sanam Kumar | 1998-03-08 |
| SAHIL SARAS | 2008-11-07 |
| AKSHRA AGARWAL | 1996-10-01 |
| STUTI MISHRA | 2008-11-23 |
| HARSH AGGARWAL | 1998-03-08 |
| NIKUNJ AGGARWAL | 1998-06-28 |
| AKRITI SAKSENA | 2008-11-23 |
| TANI RASTOGI | 2008-11-23 |

3. To display all students record where percentage is greater of equal to 80 FROM student table: select \* from student where Percentage >= 80;

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1001 | Surekha Joshi | Female | 82 | 12 | A | Science | 1998-08-03 |
| 1013 | AKRITI SAKSENA | Female | 89 | 12 | A | Science | 2008-11-23 |
| 1014 | TANI RASTOGI | Female | 82 | 12 | A | Science | 2008-11-23 |

4. To display student name, stream and percentage where percentage of student is more than 80: select StdName, S\_Stream, Percentage from student where Percentage > 80;

|  |  |  |
| --- | --- | --- |
| Surekha Joshi | Science | 82 |
| AKRITI SAKSENA | Science | 89 |
| TANI RASTOGI | Science | 82 |

5. To display all records of science students whose percentage is more than 75 form student table:

select \* from student where S\_Stream = 'Science' And Percentage > 75;

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1001 | Surekha Joshi | Female | 82 | 12 | A | Science | 1998-08-03 |
| 1005 | Dipesh Pulkit | Male | 78 | 11 | B | Science | 2003-09-14 |
| 1013 | AKRITI SAKSENA | Female | 89 | 12 | A | Science | 2008-11-23 |
| 1014 | TANI RASTOGI | Female | 82 | 12 | A | Science | 2008-11-23 |