**create** **database** MIC;

**use** MIC;

#1.region table

**create** **table** Region(

region\_id **int** **primary** **key**,

region\_name **varchar**(15)

);

#2.employee table

**create** **table** Employee(

emp\_id **int** **primary** **key**,

emp\_lname **varchar**(30),

emp\_mi **varchar**(15),

emp\_fname **varchar**(30),

emp\_hiredate **date**,

region\_id **int**,

**constraint** **foreign** **key** (region\_id) **references** Region(region\_id)

);

#3.customer table

**create** **table** Customer(

cust\_id **int** **primary** **key**,

cust\_name **varchar**(30),

cust\_phone **varchar**(20),

region\_id **int**,

**constraint** **foreign** **key** (region\_id) **references** Region(region\_id)

);

#4.skill table

**create** **table** Skill(

skill\_id **int** **primary** **key**,

skill\_description **varchar**(30),

skill\_rate **int**

);

#5.empskill table

**create** **table** Empskill(

emp\_id **int**,

skill\_id **int**,

**constraint** **foreign** **key** (skill\_id) **references** Skill(skill\_id),

**constraint** **foreign** **key** (emp\_id) **references** Employee(emp\_id)

);

#6.project table

**create** **table** Project(

project\_id **int** **primary** **key**,

project\_date **date**,

cust\_id **int**,

project\_description **varchar**(30),

project\_esdatestart **date**,

project\_esdateends **date**,

project\_esbudget **decimal**(10,2),

project\_acdatestart **date**,

project\_acdateends **date**,

project\_accost **decimal**(10,2),

emp\_id **int**,

**constraint** **foreign** **key** (cust\_id) **references** Customer(cust\_id),

**constraint** **foreign** **key** (emp\_id) **references** Employee(emp\_id)

);

#7.task table

**create** **table** Task(

task\_id **int** **primary** **key**,

project\_id **int**,

task\_description **varchar**(50),

task\_begindate **date**,

task\_enddate **date**,

skill\_id **int**,

task\_quantity **int**,

**constraint** **foreign** **key** (project\_id) **references** Project(project\_id),

**constraint** **foreign** **key** (skill\_id) **references** Skill(skill\_id)

);

#8.assign table

**create** **table** Assign(

assign\_id **int** **primary** **key**,

task\_id **int**,

emp\_id **int**,

assign\_begindate **date**,

assign\_enddate **date**,

**constraint** **foreign** **key** (emp\_id) **references** Employee(emp\_id),

**constraint** **foreign** **key** (task\_id) **references** Task(task\_id)

);

#9.bill table

**create** **table** Bill(

bill\_id **int** **primary** **key**,

bill\_date **date**,

project\_id **int**,

**constraint** **foreign** **key** (project\_id) **references** Project(project\_id)

);

#10.worklog table

**create** **table** Worklog(

wlog\_id **int** **primary** **key**,

assign\_id **int**,

wlog\_date **date**,

wlog\_hours **int**,

bill\_id **int**,

**constraint** **foreign** **key** (assign\_id) **references** Assign(assign\_id),

**constraint** **foreign** **key** (bill\_id) **references** Bill(bill\_id)

);

# Data loading #1 loading skill-table

insert into skill values( 1 ,' Data Entry' , 12 );

insert into skill values( 2 ,' Data Entry II' , 15 );

insert into skill values( 3 ,' System Analyst I' , 18 );

insert into skill values( 4 ,' System Analyst II' , 21 );

insert into skill values( 5 ,' Database Designer I' , 50 );

insert into skill values( 6 ,' Database Designer II' , 75 );

insert into skill values( 7 ,' SQL I' , 25 );

insert into skill values( 8 ,' SQL II' , 30 );

insert into skill values( 9 ,' C++ I' , 35 );

insert into skill values( 10 ,' C++ II' , 45 );

insert into skill values( 11 ,' Python I' , 25 );

insert into skill values( 12 ,' Python II' , 35 );

insert into skill values( 13 ,' Cold Fusion I' , 60 );

insert into skill values( 14 ,' Cold Fusion II' , 75 );

insert into skill values( 15 ,' ASP I' , 60 );

insert into skill values( 16 ,' ASP II' , 70 );

insert into skill values( 17 ,' Web Administrator' , 50 );

insert into skill values( 18 ,' Oracle DBA' , 100 );

insert into skill values( 19 ,' SQL Server DBA' , 100 );

insert into skill values( 20 ,' Network Eng. I' , 80 );

insert into skill values( 21 ,' Network Eng. II' , 100 );

insert into skill values( 22 ,' Technical Writer' , 100 );

insert into skill values( 23 ,' Project Manager' , 70 );

# Data loading #2 loading region-table

insert into region values( 1 ,' NW' );

insert into region values( 2 ,' SW' );

insert into region values( 3 ,' MN' );

insert into region values( 4 ,' MS' );

insert into region values( 5 ,' NE' );

insert into region values( 6 ,' SE' );

# Data loading #3 loading customer-table

insert into customer values( 1 ,'Xerox' ,'678-257-2857',1);

insert into customer values( 2 ,'Coca Cola' ,'931-685-1563',2);

insert into customer values( 3 ,'Verizon' ,'615-725-7896',3 );

insert into customer values( 4 ,'Dollar Store' ,'423-596-6241',4);

insert into customer values( 5 ,'Sprint' ,'901-895-5547',5);

insert into customer values( 6 ,'Exxon Mobile' ,'865-489-3699',6);

# Data loading #4 loading employee-table

INSERT INTO EMPLOYEE VALUES( 1 ,' Sexton' ,'M' ,' Amy' ,' 2001/2/7' , 1 );

INSERT INTO EMPLOYEE VALUES( 2 ,' Craig' ,'M' ,' Brad' ,' 2000/8/16' , 3 );

INSERT INTO EMPLOYEE VALUES( 3 ,' Sewell' ,'Z' ,' Barb' ,' 2000/9/15' , 4 );

INSERT INTO EMPLOYEE VALUES( 4 ,' Williams' ,'R' ,' Jordan' ,' 2000/4/7' , 2 );

INSERT INTO EMPLOYEE VALUES( 5 ,' Chandler' ,'E' ,' Johnny' ,' 2001/6/12' , 5 );

INSERT INTO EMPLOYEE VALUES( 6 ,' Robbins' ,'E' ,' Erin' ,' 2001/8/25' , 6 );

INSERT INTO EMPLOYEE VALUES( 7 ,' Burkhart' ,'C' ,' Sam' ,' 2000/11/26' , 1 );

INSERT INTO EMPLOYEE VALUES( 8 ,' Yarbrough' ,'B' ,' Peter' ,' 2001/1/9' , 6 );

INSERT INTO EMPLOYEE VALUES( 9 ,' Kattan' ,'N' ,' Chris' ,' 2000/5/31' , 2 );

INSERT INTO EMPLOYEE VALUES( 10 ,' Pascoe' ,'L' ,' Jonathan' ,' 2001/7/14' , 3 );

INSERT INTO EMPLOYEE VALUES( 11 ,' Bales' ,'D' ,' Melissa' ,' 2001/9/16' , 4 );

INSERT INTO EMPLOYEE VALUES( 12 ,' Cope' ,'R' ,' Leslie' ,' 1999/10/31' , 5 );

INSERT INTO EMPLOYEE VALUES( 13 ,' Bible' ,'M' ,' Hanah' ,' 2000/6/8' , 2 );

INSERT INTO EMPLOYEE VALUES( 14 ,' Paine' ,'S' ,' Brad' ,' 1999/5/9' , 6 );

INSERT INTO EMPLOYEE VALUES( 15 ,' Newton' ,'S' ,' Christopher' ,' 2001/2/28' , 3 );

INSERT INTO EMPLOYEE VALUES( 16 ,' Smith' ,'A' ,' Mary' ,' 1999/3/8' , 1 );

INSERT INTO EMPLOYEE VALUES( 17 ,' Underwood' ,'L' ,' Trish' ,' 1998/10/21' , 4 );

INSERT INTO EMPLOYEE VALUES( 18 ,' Bender' ,'A' ,' Larry' ,' 2000/8/9' , 6 );

INSERT INTO EMPLOYEE VALUES( 19 ,' Mudd' ,'T' ,' Roger' ,' 1999/12/1' , 5 );

INSERT INTO EMPLOYEE VALUES( 20 ,' Kenyon' ,'D' ,' Tiffany' ,' 2001/4/28' , 2 );

INSERT INTO EMPLOYEE VALUES( 21 ,' Ephanor' , NULL ,' Victor' ,' 2000/3/2' , 1 );

INSERT INTO EMPLOYEE VALUES( 22 ,' Summers' , NULL ,' Anna' ,' 1999/1/1' , 1 );

INSERT INTO EMPLOYEE VALUES( 23 ,' Smith' ,'F' ,' Jose' ,' 1998/2/6' , 1 );

INSERT INTO EMPLOYEE VALUES( 24 ,' Rogers' ,'S' ,' Adam' ,' 2000/4/6' , 1 );

INSERT INTO EMPLOYEE VALUES( 25 ,' Zebras' , NULL ,' Steve' ,' 2000/4/5' , 1 );

INSERT INTO EMPLOYEE VALUES( 26 ,' Ellis' ,'R' ,' Maria' ,' 2000/8/7' , 1 );

INSERT INTO EMPLOYEE VALUES( 27 ,' Duarte' , NULL ,' Miriam' ,' 2000/12/3' , 1 );

INSERT INTO EMPLOYEE VALUES( 28 ,' Bush' , NULL ,' Emily' ,' 1999/6/5' , 1 );

INSERT INTO EMPLOYEE VALUES( 29 ,' Kilby' ,'T' ,' Surgena' ,' 2000/4/1' , 1 );

INSERT INTO EMPLOYEE VALUES( 30 ,' Connor' , NULL ,' Sean' ,' 1998/4/15' , 1 );

# Data loading #5 loading empskill-table

insert into empskill values( 1 , 1 );

insert into empskill values( 1 , 2 );

insert into empskill values( 2 , 3 );

insert into empskill values( 3 , 3 );

insert into empskill values( 4 , 1 );

insert into empskill values( 4 , 2 );

insert into empskill values( 5 , 4 );

insert into empskill values( 6 , 3 );

insert into empskill values( 6 , 4 );

insert into empskill values( 7 , 4 );

insert into empskill values( 8 , 5 );

insert into empskill values( 8 , 6 );

insert into empskill values( 8 , 19 );

insert into empskill values( 9 , 7 );

insert into empskill values( 9 , 8 );

insert into empskill values( 10 , 6 );

insert into empskill values( 10 , 18 );

insert into empskill values( 11 , 8 );

insert into empskill values( 12 , 9 );

insert into empskill values( 13 , 10 );

insert into empskill values( 14 , 23 );

insert into empskill values( 15 , 12 );

insert into empskill values( 15 , 14 );

insert into empskill values( 15 , 16 );

insert into empskill values( 15 , 17 );

insert into empskill values( 16 , 5 );

insert into empskill values( 16 , 17 );

insert into empskill values( 16 , 20 );

insert into empskill values( 16 , 21 );

insert into empskill values( 17 , 1 );

insert into empskill values( 18 , 22 );

insert into empskill values( 19 , 23 );

insert into empskill values( 20 , 23 );

insert into empskill values( 21 , 7 );

insert into empskill values( 21 , 8 );

insert into empskill values( 22 , 7 );

insert into empskill values( 23 , 9 );

insert into empskill values( 23 , 18 );

insert into empskill values( 23 , 19 );

insert into empskill values( 24 , 9 );

insert into empskill values( 24 , 10 );

insert into empskill values( 25 , 3 );

insert into empskill values( 25 , 11 );

insert into empskill values( 25 , 12 );

insert into empskill values( 26 , 7 );

insert into empskill values( 26 , 11 );

insert into empskill values( 27 , 13 );

insert into empskill values( 27 , 15 );

insert into empskill values( 27 , 16 );

insert into empskill values( 28 , 3 );

insert into empskill values( 28 , 13 );

insert into empskill values( 28 , 14 );

insert into empskill values( 28 , 15 );

insert into empskill values( 28 , 17 );

insert into empskill values( 28 , 20 );

insert into empskill values( 28 , 21 );

insert into empskill values( 29 , 22 );

insert into empskill values( 30 , 23 );

# Data loading #6 loading project-table

insert into project values(1, '2018/2/12', 1 ,'Sales ManagementSystem','2018/3/1','2018/7/1',15500,null,null,0,30);

# Data loading #7 loading task-table

insert into task values( 2 , 1 ,' Initial Interview' ,' 2018/3/1 ',' 2018/3/6 ', 23 , 1 );

insert into task values( 3 , 1 ,' Initial Interview' ,' 2018/3/1 ',' 2018/3/6 ', 4 , 1 );

insert into task values( 4 , 1 ,' Initial Interview' ,' 2018/3/1 ',' 2018/3/6 ', 5 , 1 );

insert into task values( 5 , 1 ,' Database Design' ,' 2018/3/11 ',' 2018/3/15 ', 5 , 1 );

insert into task values( 6 , 1 ,' System Design' ,' 2018/3/11 ',' 2018/4/12 ', 4 , 1 );

insert into task values( 7 , 1 ,' System Design' ,' 2018/3/11 ',' 2018/4/12 ', 3 , 2 );

insert into task values( 8 , 1 ,' Database Implementation' ,' 2018/3/18 ',' 2018/3/22 ', 18 , 1 );

insert into task values( 9 , 1 ,' System Coding & Testing' ,' 2018/3/25 ',' 2018/5/20 ', 7 , 2 );

insert into task values( 10 , 1 ,' System Coding & Testing' ,' 2018/3/25 ',' 2018/5/20 ', 8 , 1 );

insert into task values( 11 , 1 ,' System Coding & Testing' ,' 2018/3/25 ',' 2018/5/20 ', 18 , 1 );

insert into task values( 12 , 1 ,' System Documentation' ,' 2018/3/25 ',' 2018/6/7 ', 22 , 1 );

insert into task values( 13 , 1 ,' Final Evaluation' ,' 2018/6/10 ',' 2018/6/14 ', 23 , 1 );

insert into task values( 14 , 1 ,' Final Evaluation' ,' 2018/6/10 ',' 2018/6/14 ', 4 , 1 );

insert into task values( 15 , 1 ,' Final Evaluation' ,' 2018/6/10 ',' 2018/6/14 ', 5 , 1 );

insert into task values( 16 , 1 ,' Final Evaluation' ,' 2018/6/10 ',' 2018/6/14 ', 8 , 1 );

insert into task values( 17 , 1 ,' On-Site System On-line and Data Loading' ,' 2018/6/17 ',' 2018/6/21 ', 23 , 1 );

insert into task values( 18 , 1 ,' On-Site System On-line and Data Loading' ,' 2018/6/17 ',' 2018/6/21 ', 4 , 1 );

insert into task values( 19 , 1 ,' On-Site System On-line and Data Loading' ,' 2018/6/17 ',' 2018/6/21 ', 5 , 1 );

insert into task values( 20 , 1 ,' On-Site System On-line and Data Loading' ,' 2018/6/17 ',' 2018/6/21 ', 8 , 1 );

insert into task values( 21 , 1 ,' Sign Off' ,' 2018/7/1 ',' 2018/7/1 ', 23 , 1 );

# Data loading #8 loading task-table

insert into assign values( 6 , 2 , 30 ,' 2018/3/1 ',' 2018/3/6' );

insert into assign values( 7 , 3 , 7 ,' 2018/3/1 ',' 2018/3/6' );

insert into assign values( 8 , 4 , 16 ,' 2018/3/1 ',' 2018/3/6' );

insert into assign values( 9 , 5 , 16 ,' 2018/3/11 ',' 2018/3/14' );

insert into assign values( 10 , 6 , 7 ,' 2018/3/11 ', null );

insert into assign values( 11 , 7 , 28 ,' 2018/3/11 ', null );

insert into assign values( 12 , 7 , 25 ,' 2018/3/11 ', null );

insert into assign values( 13 , 8 , 23 ,' 2018/3/15 ',' 2018/3/19' );

insert into assign values( 14 , 9 , 22 ,' 2018/3/21 ', null );

insert into assign values( 15 , 9 , 26 ,' 2018/3/21 ', null );

insert into assign values( 16 , 10 , 21 ,' 2018/3/21 ', null );

insert into assign values( 17 , 11 , 23 ,' 2018/3/21 ', null );

insert into assign values( 18 , 12 , 29 ,' 2018/3/25 ', null );

# Data loading #9 loading bill-table

insert into bill values( 1 ,'2018/3/15' ,1 );

# Data loading #10 loading worklog-table

insert into worklog values( 3 , 6 ,' 2018/3/1 ', 4 , 1 );

insert into worklog values( 4 , 7 ,' 2018/3/1 ', 4 , 1 );

insert into worklog values( 5 , 8 ,' 2018/3/1 ', 4 , 1 );

insert into worklog values( 6 , 7 ,' 2018/3/8 ', 24 , 1 );

insert into worklog values( 7 , 6 ,' 2018/3/8 ', 24 , 1 );

insert into worklog values( 8 , 8 ,' 2018/3/8 ', 24 , 1 );

insert into worklog values( 9 , 10 ,' 2018/3/15 ', 40 , 1 );

insert into worklog values( 10 , 11 ,' 2018/3/15 ', 40 , 1 );

insert into worklog values( 11 , 13 ,' 2018/3/15 ', 6 , 1 );

insert into worklog values( 12 , 9 ,' 2018/3/15 ', 32 , 1 );

insert into worklog values( 13 , 12 ,' 2018/3/15 ', 35 , 1 );

insert into worklog values( 14 , 10 ,' 2018/3/22 ', 40 , null );

insert into worklog values( 15 , 11 ,' 2018/3/22 ', 40 , null );

insert into worklog values( 16 , 15 ,' 2018/3/22 ', 12 , null );

insert into worklog values( 17 , 16 ,' 2018/3/22 ', 12 , null );

insert into worklog values( 18 , 13 ,' 2018/3/22 ', 12 , null );

insert into worklog values( 19 , 17 ,' 2018/3/22 ', 12 , null );

insert into worklog values( 20 , 14 ,' 2018/3/22 ', 12 , null );

insert into worklog values( 21 , 12 ,' 2018/3/22 ', 35 , null );

insert into worklog values( 22 , 10 ,' 2018/3/29 ', 40 , null );

insert into worklog values( 23 , 11 ,' 2018/3/29 ', 40 , null );

insert into worklog values( 24 , 15 ,' 2018/3/29 ', 35 , null );

insert into worklog values( 25 , 16 ,' 2018/3/29 ', 35 , null );

insert into worklog values( 26 , 18 ,' 2018/3/29 ', 40 , null );

insert into worklog values( 27 , 17 ,' 2018/3/29 ', 35 , null );

insert into worklog values( 28 , 14 ,' 2018/3/29 ', 35 , null );

insert into worklog values( 29 , 12 ,' 2018/3/29 ', 35 , null );