Jonathan Perry

Name of Members:

<u>Tablespaces:</u> PROJTS

<u>Tables:</u> CREATETB

<u>Inserting data:</u> CONSULT, SKILL, CSKILL, CLIENT, PROJECT, PSKILL, PASSIGN

- <u>CONSULT</u> = Consultant (table)
- <u>SKILL</u> = Skill (table)
- <u>CSKILL</u> = Cons_skill (table)
- <u>CLIENT</u> = Client (table)
- <u>PROJECT</u> = Project (table)
- <u>PSKILL</u> = Project_Skill (table)
- <u>PASSIGN</u> = Project_Assignment (table)

<u>Selecting Data:</u>
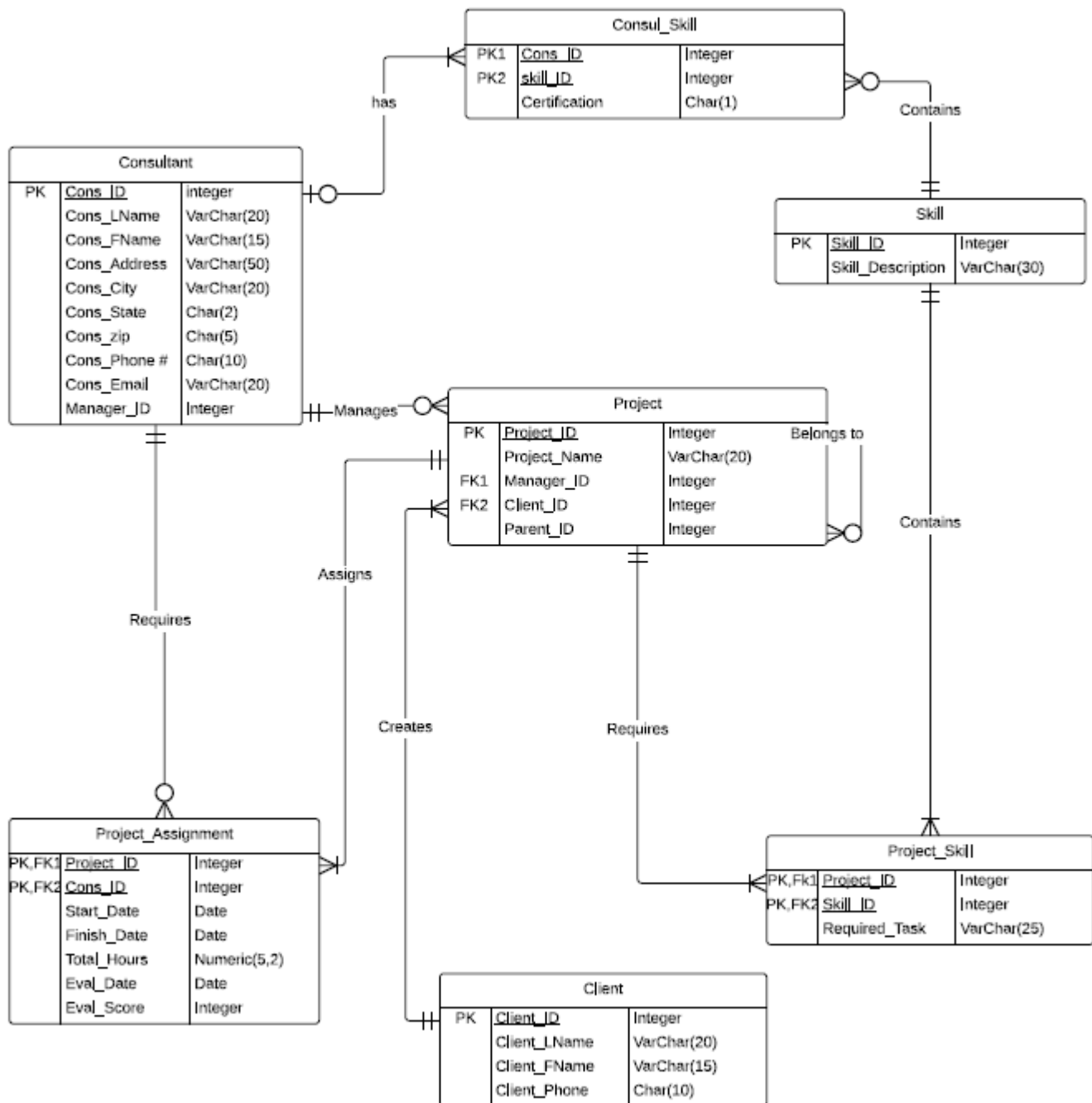
- <u>SCONSULT</u> = Consultant (table)
- <u>SSKILL</u> = Skill (table)
- <u>SCSKILL</u> = Cons_skill (table)
- <u>SCLIENT</u> = Client (table)
- <u>SPROJ</u> = Project (table)
- <u>SPSKILL</u> = Project_Skill (table)
- <u>SPASSIGN</u> = Project_Assignment(table)

Perry, Jonathan

Contents

Updated Entity Relationship Diagram:

Logical Design – Relational Schema:

Relation Listing:

(3NF) Consultant[<u>CONS_ID</u>, CONS_LName, CONS_FName, CONS_Address, CONS_City, CONS_STATE, CONS_ZIP, CONS_PHONE#, CONS_Email, MANAGER_ID]

(3NF) Skill[<u>Skill_ID</u>, SKILL_DESCRIPTION]

(3NF) Cons_Skill[<u>CONS_ID</u>, Skill_ID, Certificate]

(3NF) Client[<u>Client_ID</u>, Client_LName, Client_FName, Client_Phone#]

(3NF) Project[<u>Project_ID</u>, Project_Name, MANAGER_ID, Client_ID, PARENT_ID]

(3NF) Project_Skill[<u>Project_ID, SKILL_ID</u>, Required_Task]

(3NF) Project_Assignment[<u>Project_ID, cons_ID</u>, START_date, Finish_Date, Total_Hours, Eval_Date, Eval_Score]

Physical Design

Tablespaces Script

```
---------+---------+---------+---------+---------+---------+---------+---------+
CREATE TABLESPACE M027TPCO IN M027DB                        00010001
USING STOGROUP UNTDISK                              00020000
PRIQTY 20 SECQTY 20                            00030000
LOCKSIZE PAGE;                         00040000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
CREATE TABLESPACE M027TPPA IN M027DB                        00050001
USING STOGROUP UNTDISK                              00060000
PRIQTY 20 SECQTY 20                            00070000
LOCKSIZE PAGE;                         00080000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
CREATE TABLESPACE M027TPCL IN M027DB                        00090002
USING STOGROUP UNTDISK                              00100000
PRIQTY 20 SECQTY 20                            00110000
LOCKSIZE PAGE;                         00120000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
CREATE TABLESPACE M027TPCS IN M027DB                        00130003
USING STOGROUP UNTDISK                              00140000
PRIQTY 20 SECQTY 20                            00150000
LOCKSIZE PAGE;                         00160000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
CREATE TABLESPACE M027TPSK IN M027DB                        00170001
USING STOGROUP UNTDISK                              00180000
PRIQTY 20 SECQTY 20                            00190000
LOCKSIZE PAGE;                         00200000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
CREATE TABLESPACE M027TPPS IN M027DB                        00210001
USING STOGROUP UNTDISK                              00220000
PRIQTY 20 SECQTY 20                            00230000
LOCKSIZE PAGE;                         00240000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
```

```
CREATE TABLESPACE M027TPPR IN M027DB                    00250001
USING STOGROUP UNTDISK                                  00260000
PRIQTY 20 SECQTY 20                                     00270000
LOCKSIZE PAGE;                                          00280000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 7
DSNE621I NUMBER OF INPUT RECORDS READ IS 28
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 58
```

Tables and Indexes Script (All in 1 Script)

```
---------+---------+---------+---------+---------+---------+---------+---------+
CREATE TABLE UNTM027.CONSULTANT (                           00010000
CONS_ID     INTEGER    NOT NULL,                        00020000
CONS_LNAME   VARCHAR(20) NOT NULL,                        00030000
CONS_FNAME   VARCHAR(15) NOT NULL,                        00040000
CONS_ADDRESS VARCHAR(50)  NOT NULL,                         00050000
CONS_CITY   VARCHAR(20) NOT NULL,                        00060000
CONS_STATE   CHAR(2)    NOT NULL,                        00070000
CONS_ZIP    CHAR(5)    NOT NULL,                        00080000
CONS_PHONE#  CHAR(10)    NOT NULL,                        00090000
CONS_EMAIL   VARCHAR(20) NOT NULL,                         00100000
MANAGER_ID   INTEGER,                                  00101082
PRIMARY KEY (CONS_ID),                                  00110000
CONSTRAINT CONS_UI1 UNIQUE (CONS_LNAME, CONS_FNAME))         00120086
IN M027DB.M027TPCO;                                     00130000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
CREATE UNIQUE INDEX UNTM027.P1CO ON UNTM027.CONSULTANT (CONS_ID)     00131074
USING STOGROUP UNTDISK PRIQTY 12;                       00132074
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
CREATE UNIQUE INDEX UNTM027.P1CO1 ON UNTM027.CONSULTANT       00133076
(CONS_LNAME, CONS_FNAME) USING STOGROUP UNTDISK PRIQTY 12;    00134075
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
CREATE TABLE UNTM027.SKILL (                            00140000
SKILL_ID      INTEGER    NOT NULL,                     00150000
SKILL_DESCRIPTION  VARCHAR(30) NOT NULL,                    00160000
```

PRIMARY KEY (SKILL_ID))   00170000
IN M027DB.M027TPSK;   00180000
---------+---------+---------+--------+--------+---------+---------+--------+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+--------+--------+---------+---------+--------+
CREATE UNIQUE INDEX UNTM027.P1SK ON UNTM027.SKILL (SKILL_ID)   00181071
USING STOGROUP UNTDISK PRIQTY 12;   00182072
---------+---------+---------+--------+--------+---------+---------+--------+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+--------+--------+---------+---------+--------+
CREATE TABLE UNTM027.CONS_SKILL (00190000
CONS_ID   INTEGER   NOT NULL,   00200000
SKILL_ID   INTEGER   NOT NULL,   00210000
CERTIFICATE CHAR(1)   NOT NULL CHECK(CERTIFICATE IN ('Y','N')),   00220009
PRIMARY KEY(CONS_ID,SKILL_ID),   00240078
FOREIGN KEY(CONS_ID) REFERENCES CONSULTANT,   00250000
FOREIGN KEY(SKILL_ID) REFERENCES SKILL)   00260006
IN M027DB.M027TPCS;   00270000
---------+---------+---------+--------+--------+---------+---------+--------+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+--------+--------+---------+---------+--------+
CREATE UNIQUE INDEX UNTM027.P1CS ON UNTM027.CONS_SKILL   00271075
(CONS_ID,SKILL_ID) USING STOGROUP UNTDISK PRIQTY 12;   00272077
---------+---------+---------+--------+--------+---------+---------+--------+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+--------+--------+---------+---------+--------+
CREATE INDEX UNTM027.P1CS1 ON UNTM027.CONS_SKILL (CONS_ID)   00273075
USING STOGROUP UNTDISK PRIQTY 12;   00274075
---------+---------+---------+--------+--------+---------+---------+--------+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+--------+--------+---------+---------+--------+
CREATE INDEX UNTM027.P1CS2 ON UNTM027.CONS_SKILL (SKILL_ID) USING   00275075
STOGROUP UNTDISK PRIQTY 12;   00276075
---------+---------+---------+--------+--------+---------+---------+--------+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+--------+--------+---------+---------+--------+
CREATE TABLE UNTM027.CLIENT (00280000
CLIENT_ID   INTEGER   NOT NULL,   00290000
CLIENT_LNAME VARCHAR(20) NOT NULL,   00300000
CLIENT_FNAME VARCHAR(15) NOT NULL,   00310000
CLIENT_PHONE# CHAR(10)   NOT NULL,   00320000
PRIMARY KEY (CLIENT_ID),   00330000
CONSTRAINT CLIENT_UI1 UNIQUE (CLIENT_LNAME, CLIENT_FNAME))   00340000
IN M027DB.M027TPCL;   00350000
---------+---------+---------+--------+--------+---------+---------+--------+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0

```
---------+---------+---------+---------+---------+---------+---------+---------+
CREATE UNIQUE INDEX UNTM027.P1CL ON UNTM027.CLIENT (CLIENT_ID)          00351074
USING STOGROUP UNTDISK PRIQTY 12;                          00352074
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
CREATE UNIQUE INDEX UNTM027.P1CL1 ON UNTM027.CLIENT            00353075
(CLIENT_LNAME, CLIENT_FNAME) USING STOGROUP UNTDISK PRIQTY 12;      00354075
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
CREATE TABLE UNTM027.PROJECT (                           00360013
PROJECT_ID   INTEGER    NOT NULL,                00370000
PROJECT_NAME  VARCHAR(20)  NOT NULL,                  00380000
MANAGER_ID   INTEGER    NOT NULL,                00381082
CLIENT_ID    INTEGER    NOT NULL,                00390000
PARENT_ID    INTEGER,                     00400000
PRIMARY KEY (PROJECT_ID),                    00410000
FOREIGN KEY (MANAGER_ID) REFERENCES CONSULTANT,          00411082
FOREIGN KEY (CLIENT_ID) REFERENCES CLIENT)             00420016
IN M027DB.M027TPPR;                      00440000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
CREATE UNIQUE INDEX UNTM027.P1PR ON UNTM027.PROJECT          00441075
(PROJECT_ID) USING STOGROUP UNTDISK PRIQTY 12;           00442075
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
CREATE INDEX UNTM027.P1PR0 ON UNTM027.PROJECT (MANAGER_ID)      00442182
USING STOGROUP UNTDISK PRIQTY 12;                     00442282
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
CREATE INDEX UNTM027.P1PR1 ON UNTM027.PROJECT (CLIENT_ID)       00443075
USING STOGROUP UNTDISK PRIQTY 12;                     00444075
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
CREATE TABLE UNTM027.PROJECT_SKILL (                 00450000
PROJECT_ID   INTEGER    NOT NULL,                00460000
SKILL_ID    INTEGER    NOT NULL,                00470000
REQUIRED_TASK VARCHAR(25) NOT NULL,                  00480000
PRIMARY KEY (PROJECT_ID, SKILL_ID),             00490000
FOREIGN KEY (PROJECT_ID) REFERENCES PROJECT,            00491079
FOREIGN KEY (SKILL_ID) REFERENCES SKILL)             00500000
```

IN M027DB.M027TPPS;   00510000

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

DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0

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

CREATE UNIQUE INDEX UNTM027.P1PS ON UNTM027.PROJECT_SKILL   00511075
(PROJECT_ID,SKILL_ID)USING STOGROUP UNTDISK PRIQTY 12;   00512075

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

DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0

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

CREATE INDEX UNTM027.P1PS1 ON UNTM027.PROJECT_SKILL (PROJECT_ID)   00513075
USING STOGROUP UNTDISK PRIQTY 12;   00514075

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

DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0

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

CREATE INDEX UNTM027.P1PS2 ON UNTM027.PROJECT_SKILL (SKILL_ID)   00515075
USING STOGROUP UNTDISK PRIQTY 12;   00516075

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

DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0

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

CREATE TABLE UNTM027.PROJECT_ASSIGNMENT (00520041
PROJECT_ID INTEGER   NOT NULL,   00530041
CONS_ID   INTEGER   NOT NULL,   00540041
START_DATE DATE   NOT NULL,   00550041
FINISH_DATE DATE,   00560041
TOTAL_HOURS NUMERIC(5,2) NOT NULL,   00570041
EVAL_DATE   DATE,   00580041
EVAL_SCORE   INTEGER CHECK(EVAL_SCORE BETWEEN 0 AND 100),   00590081
PRIMARY KEY (PROJECT_ID, CONS_ID),   00600042
FOREIGN KEY (PROJECT_ID) REFERENCES PROJECT,   00610039
FOREIGN KEY (CONS_ID) REFERENCES CONSULTANT,   00620039
CONSTRAINT START_CK2 CHECK (FINISH_DATE > START_DATE),   00650039
CONSTRAINT EVAL_CK1 CHECK (EVAL_DATE > START_DATE))   00660039
IN M027DB.M027TPPA;   00670039

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

DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0

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

CREATE UNIQUE INDEX UNTM027.P1PA ON UNTM027.PROJECT_ASSIGNMENT   00680075
(PROJECT_ID,CONS_ID) USING STOGROUP UNTDISK PRIQTY 12;   00690075

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

DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0

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

CREATE INDEX UNTM027.P1PA1 ON UNTM027.PROJECT_ASSIGNMENT   00700075
(PROJECT_ID) USING STOGROUP UNTDISK PRIQTY 12;   00710075

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

DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0

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

CREATE INDEX UNTM027.P1PA2 ON UNTM027.PROJECT_ASSIGNMENT   00720075
(CONS_ID) USING STOGROUP UNTDISK PRIQTY 12;   00730075
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
COMMIT;   00740065
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 25
DSNE621I NUMBER OF INPUT RECORDS READ IS 102
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 186

Altered Project Table Referential Constraint

ALTER TABLE PROJECT
ADD FOREIGN KEY(PARENT_ID) REFERENCES PROJECT(PROJECT_ID)
ON DELETE CASCADE;
CREATE INDEX UNTM027.P1PR2 ON UNTM027.PROJECT (PARENT_ID)
USING STOGROUP UNTDISK PRIQTY;

Structured Query Language Statements:

Table – Consultant

Consultant Insert Statement

```
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO CONSULTANT VALUES                           00020011
(1, 'DOE', 'JOHN', '388 UNIVERSAL ROAD','DENTON','TX'          00021015
,'76201', '817566984', 'JOHNDOE@GMAIL.COM',1);                 00030019
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO CONSULTANT VALUES                           00040000
(2, 'STEVENS','MARK', '923 WEST SYCAMORE ST','DENTON','TX'     00050016
,'76201', '8175555445', 'MSTEVENS@GMAIL.COM',NULL);            00060019
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO CONSULTANT VALUES                           00070000
(3, 'PENNY', 'STEPHANIE','623 HICKORY STREET', 'DENTON', 'TX'  00080014
,'76202', '9405657123', 'STEPHPENNY@GMAIL.COM',NULL);          00090019
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO CONSULTANT VALUES                           00100000
(4, 'GLASS','GEORGE', '343 OLD JUSTIN RD', 'ARGYLE', 'TX'      00110014
,'76226', '8459654364', 'GEORGEG@YAHOO.COM',NULL);             00120019
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO CONSULTANT VALUES                           00130000
(5, 'CARTER','JAMES', '3809 DIAMOND LOCH W.', 'FORT WORTH', 'TX'    00140016
,'76180', '8175555455', 'JAMESCARTER@UNT.EDU',NULL);           00150019
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO CONSULTANT VALUES                           00160000
(100, 'MEYERS', 'MARK', '390 SOMEWHERE LAND', 'LEWISVILLE', 'TX'    00170014
,'76077', '890412323', 'MARKMEYERS@YAHOO.COM',2);              00180019
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
```

```
---------+---------+---------+---------+---------+---------+---------+---------+
```
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 6
DSNE621I NUMBER OF INPUT RECORDS READ IS 18
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 51

Consultant Select * Statement

```
---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+--
```
SELECT * FROM CONSULTANT;   00010000
```
---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+--
```
CONS_ID CONS_LNAME CONS_FNAME CONS_ADDRESS   CONS_CITY CONS_STATE CONS_ZIP CONS_PHONE# CONS_EMAIL   MANAGER_ID
```
---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+--
```
1 DOE   JOHN   388 UNIVERSAL ROAD DENTON   TX   76201 817566984 JOHNDOE@GMAIL.COM   1
2 STEVENS   MARK   923 WEST SYCAMORE ST DENTON   TX   76201   8175555445 MSTEVENS@GMAIL.COM -
3 PENNY   STEPHANIE 623 HICKORY STREET   DENTON   TX   76202   9405657123 STEPHPENNY@GMAIL.COM -
4 GLASS   GEORGE   343 OLD JUSTIN RD   ARGYLE   TX   76226   8459654364 GEORGEG@YAHOO.COM   -
5 CARTER   JAMES   3809 DIAMOND LOCH W. FORT WORTH TX   76180   8175555455 JAMESCARTER@UNT.EDU -
100 MEYERS   MARK   390 SOMEWHERE LAND   LEWISVILLE TX   76077   890412323 MARKMEYERS@YAHOO.COM 2
DSNE610I NUMBER OF ROWS DISPLAYED IS 6
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 100
```
---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+--
```
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
```
---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+--
```
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 1
DSNE621I NUMBER OF INPUT RECORDS READ IS 1
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 22
Table – Skill

Skill Insert Statement

```
---------+---------+---------+---------+---------+---------+---------+---------+
```
INSERT INTO SKILL VALUES (1, 'CONSULTING');   00010001
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
INSERT INTO SKILL VALUES (2, 'PROGRAMMING');   00020001
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
INSERT INTO SKILL VALUES (3, 'NETWORKING');   00030001
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
INSERT INTO SKILL VALUES (4, 'MICROSOFT OFFICE');   00040001

```
---------+---------+---------+---------+---------+---------+---------+---------+
```
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
INSERT INTO SKILL VALUES (5, 'STATISTICS');   00050003
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 5
DSNE621I NUMBER OF INPUT RECORDS READ IS 5
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 34

Skill Select * Statement

```
---------+---------+---------+---------+---------+---------+---------+---------+
```
SELECT * FROM SKILL;   00010000
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
  SKILL_ID SKILL_DESCRIPTION
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
        1 CONSULTING
        2 PROGRAMMING
        3 NETWORKING
        4 MICROSOFT OFFICE
        5 STATISTICS
DSNE610I NUMBER OF ROWS DISPLAYED IS 5
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 100
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 1
DSNE621I NUMBER OF INPUT RECORDS READ IS 1
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 21

Table – Cons_Skill

Cons_Skill Insert Statement

```
---------+---------+---------+---------+---------+---------+---------+---------+
```
INSERT INTO CONS_SKILL VALUES (1, 5, 'Y');   00010005
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
```
---------+---------+---------+---------+---------+---------+---------+---------+
```

```
INSERT INTO CONS_SKILL VALUES (1,1,'N');              00020000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO CONS_SKILL VALUES (2,2,'Y');              00030000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO CONS_SKILL VALUES (2,4,'Y');              00040000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO CONS_SKILL VALUES (2,1,'N');              00050000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO CONS_SKILL VALUES (3,3,'N');              00060000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO CONS_SKILL VALUES (3,1,'N');              00070000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO CONS_SKILL VALUES (4,4,'Y');              00080000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO CONS_SKILL VALUES (4,1,'N');              00090000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO CONS_SKILL VALUES (5,3,'Y');              00100004
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO CONS_SKILL VALUES (5,4,'N');              00110000
```

```
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO CONS_SKILL VALUES (5,1,'N');                 00120000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO CONS_SKILL VALUES (100,1,'N');               00130002
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO CONS_SKILL VALUES (100,3,'Y');               00140002
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO CONS_SKILL VALUES (100,5,'N');               00150002
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 15
DSNE621I NUMBER OF INPUT RECORDS READ IS 15
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 84
```

Cons_Skill Select * Statement

```
---------+---------+---------+---------+---------+---------+---------+---------+
SELECT * FROM CONS_SKILL;                                00010000
---------+---------+---------+---------+---------+---------+---------+---------+
  CONS_ID    SKILL_ID  CERTIFICATE
---------+---------+---------+---------+---------+---------+---------+---------+
     1         5 Y
     1         1 N
     2         2 Y
     2         4 Y
     2         1 N
     3         3 N
     3         1 N
     4         4 Y
     4         1 N
```

```
   5        3 Y
   5        4 N
   5        1 N
 100        1 N
 100        3 Y
 100        5 N
```
DSNE610I NUMBER OF ROWS DISPLAYED IS 15
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 100
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 1
DSNE621I NUMBER OF INPUT RECORDS READ IS 1
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 31

Table – Project

Project Insert Statement

```
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO PROJECT VALUES (1, 'GAMESTOP CONSULTING',1,5, NULL);     00010003
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO PROJECT VALUES (2, 'DATABASE EXECUTION',2,1,NULL);       00020003
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO PROJECT VALUES (3, 'DATABASE PROGRAMMING',2,1,2);        00030004
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO PROJECT VALUES (4, 'NETWORK INSTALL',2,1,2);          00040004
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO PROJECT VALUES (5, 'FEDEX CONSULTING',1,2,NULL);         00050003
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
```

INSERT INTO PROJECT VALUES (6, 'BESTBUY CONSULTING',1,3, NULL);   00060003
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO PROJECT VALUES (7, 'WALMART CONSULTING',1,4, NULL);   00070003
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 7
DSNE621I NUMBER OF INPUT RECORDS READ IS 7
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 44

Project Select * Statement

---------+---------+---------+---------+---------+---------+---------+---------+
SELECT * FROM PROJECT;   00010000
---------+---------+---------+---------+---------+---------+---------+---------+
 PROJECT_ID PROJECT_NAME   MANAGER_ID   CLIENT_ID   PARENT_ID
---------+---------+---------+---------+---------+---------+---------+---------+
      1 GAMESTOP CONSULTING   1   5 -----------
      2 DATABASE EXECUTION   2   1 -----------
      3 DATABASE PROGRAMMING   2   1   2
      4 NETWORK INSTALL   2   1   2
      5 FEDEX CONSULTING   1   2 -----------
      6 BESTBUY CONSULTING   1   3 -----------
      7 WALMART CONSULTING   1   4 -----------
DSNE610I NUMBER OF ROWS DISPLAYED IS 7
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 100
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 1
DSNE621I NUMBER OF INPUT RECORDS READ IS 1
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 23

Table – Project_Skill

Project_Skill Insert Statement

---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO PROJECT_SKILL VALUES (1,1,'IT SOFTWARE DEVELOPMENT');   00010000
---------+---------+---------+---------+---------+---------+---------+---------+

DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO PROJECT_SKILL VALUES (2,5,'ORGANIZE TEAM & PLAN');   00020000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO PROJECT_SKILL VALUES (3,2,'WRITE DB CODE');   00030000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO PROJECT_SKILL VALUES (4,3,'IMPLEMENT NETWORK SYSTEM');   00040000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO PROJECT_SKILL VALUES (5,1,'FREIGHT EFFICIENCY');   00050000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO PROJECT_SKILL VALUES (6,1,'NEW IT HARDWARE');   00060000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO PROJECT_SKILL VALUES (7,1,'IT OUTSOURCING');   00070000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO PROJECT_SKILL VALUES (1,2,'WRITE SOFTWARE CODE');   00080000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 8
DSNE621I NUMBER OF INPUT RECORDS READ IS 8
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 49
Project_Skill Select * Statement

```
---------+---------+---------+---------+---------+---------+---------+---------+
SELECT * FROM PROJECT_SKILL;                              00010000
---------+---------+---------+---------+---------+---------+---------+---------+
 PROJECT_ID    SKILL_ID  REQUIRED_TASK
---------+---------+---------+---------+---------+---------+---------+---------+
        1         1  IT SOFTWARE DEVELOPMENT
        2         5  ORGANIZE TEAM & PLAN
        3         2  WRITE DB CODE
        4         3  IMPLEMENT NETWORK SYSTEM
        5         1  FREIGHT EFFICIENCY
        6         1  NEW IT HARDWARE
        7         1  IT OUTSOURCING
        1         2  WRITE SOFTWARE CODE
DSNE610I NUMBER OF ROWS DISPLAYED IS 8
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 100
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 1
DSNE621I NUMBER OF INPUT RECORDS READ IS 1
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 24
```

Table – Client

Client Insert Statement

```
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO CLIENT VALUES (1, 'PERRY','JONATHAN', '8171112222');     00010000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO CLIENT VALUES (2, 'FRESH','SUBRINA','8179405432');     00020000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO CLIENT VALUES (3, 'BANKS','CARLTON','9402321212');     00030000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO CLIENT VALUES (4, 'DAMON', 'MATHEW', '6234441275');     00040000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
```

```
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO CLIENT VALUES (5, 'POWERS','AUSTIN', '7658489294');        00050000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 5
DSNE621I NUMBER OF INPUT RECORDS READ IS 5
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 34
```

Client Select * Statement

```
---------+---------+---------+---------+---------+---------+---------+---------+
SELECT * FROM CLIENT;                             00010000
---------+---------+---------+---------+---------+---------+---------+---------+
 CLIENT_ID CLIENT_LNAME     CLIENT_FNAME   CLIENT_PHONE#
---------+---------+---------+---------+---------+---------+---------+---------+
     1 PERRY          JONATHAN     8171112222
     2 FRESH          SUBRINA      8179405432
     3 BANKS          CARLTON      9402321212
     4 DAMON          MATHEW       6234441275
     5 POWERS         AUSTIN       7658489294
DSNE610I NUMBER OF ROWS DISPLAYED IS 5
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 100
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 1
DSNE621I NUMBER OF INPUT RECORDS READ IS 1
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 21
```

Table – Project_Assignment

Project_Assignment Insert Statement

```
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO PROJECT_ASSIGNMENT VALUES (1,2,'2015-01-05'        00010005
,'2015-03-05',323, '2015-03-06',85);                     00020011
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO PROJECT_ASSIGNMENT VALUES (2,100,'2015-02-08'        00030005
,'2015-05-05',500, '2015-05-06',98);                     00040011
```

```
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO PROJECT_ASSIGNMENT VALUES (3,2,'2015-03-30'          00050007
,'2015-04-05',200, '2015-04-07',95);                 00060011
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO PROJECT_ASSIGNMENT VALUES (4,3,'2015-03-31'          00070008
,'2015-05-01',140, '2015-05-03', 91);                00080011
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO PROJECT_ASSIGNMENT VALUES (4,5,'2015-04-05'          00090008
,'2015-05-01',140,'2015-05-03', 90);                 00100011
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO PROJECT_ASSIGNMENT VALUES (5,1,'2015-05-06',NULL,10  00110010
,NULL,NULL);                              00120000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO PROJECT_ASSIGNMENT VALUES (6,3,'2015-05-02',NULL,05  00130008
,NULL,NULL);                              00140008
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
INSERT INTO PROJECT_ASSIGNMENT VALUES (7,5,'2015-05-02',NULL,15  00150008
,NULL,NULL);                              00160008
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE615I NUMBER OF ROWS AFFECTED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 8
DSNE621I NUMBER OF INPUT RECORDS READ IS 16
```

DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 57
Project_Assignment Select * Statement

```
---------+---------+---------+---------+---------+---------+---------+---------+
SELECT * FROM PROJECT_ASSIGNMENT;                        00010000
---------+---------+---------+---------+---------+---------+---------+---------+
 PROJECT_ID    CONS_ID START_DATE FINISH_DATE TOTAL_HOURS EVAL_DATE   EVAL_SCORE
---------+---------+---------+---------+---------+---------+---------+---------+
       1         2 2015-01-05 2015-03-05      323.00 2015-03-06        85
       2       100 2015-02-08 2015-05-05      500.00 2015-05-06        98
       3         2 2015-03-30 2015-04-05      200.00 2015-04-07        95
       4         3 2015-03-31 2015-05-01      140.00 2015-05-03        91
       4         5 2015-04-05 2015-05-01      140.00 2015-05-03        90
       5         1 2015-05-06 ----------      10.00 ---------- ----------
       6         3 2015-05-02 ----------       5.00 ---------- ----------
       7         5 2015-05-02 ----------      15.00 ---------- ----------
DSNE610I NUMBER OF ROWS DISPLAYED IS 8
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 100
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 1
DSNE621I NUMBER OF INPUT RECORDS READ IS 1
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 24
```

Query Questions #6:

Query 6A:

```
---------+---------+---------+---------+---------+---------+---------+---------+
SELECT DISTINCT CONS_CITY FROM CONSULTANT ORDER BY CONS_CITY ASC;     00010004
---------+---------+---------+---------+---------+---------+---------+---------+
CONS_CITY
---------+---------+---------+---------+---------+---------+---------+---------+
ARGYLE
DENTON
FORT WORTH
LEWISVILLE
DSNE610I NUMBER OF ROWS DISPLAYED IS 4
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 100
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 1
DSNE621I NUMBER OF INPUT RECORDS READ IS 1
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 20
```

Query 6B:

```
---------+---------+---------+---------+---------+---------+---------+---------+
SELECT A.CONS_ID, B.SKILL_ID, B.CERTIFICATE FROM          00010003
CONSULTANT A, CONS_SKILL B                               00020001
WHERE A.CONS_ID = B.CONS_ID AND                          00030000
SKILL_ID BETWEEN 1 AND 3;                                00040007
---------+---------+---------+---------+---------+---------+---------+---------+
  CONS_ID   SKILL_ID  CERTIFICATE
---------+---------+---------+---------+---------+---------+---------+---------+
        1         1 N
        2         2 Y
        2         1 N
        3         3 N
        3         1 N
        4         1 N
        5         3 Y
        5         1 N
      100         1 N
      100         3 Y
DSNE610I NUMBER OF ROWS DISPLAYED IS 10
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 100
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
```

```
---------+---------+---------+---------+---------+---------+---------+---------+
```
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 1
DSNE621I NUMBER OF INPUT RECORDS READ IS 4
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 29

Query 6C:

```
---------+---------+---------+---------+---------+---------+---------+---------+
```
SELECT CONS_FNAME,CONS_LNAME   00010000
FROM CONSULTANT   00020000
WHERE CONS_LNAME LIKE 'M%';   00030001
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
CONS_FNAME   CONS_LNAME
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
MARK   MEYERS
DSNE610I NUMBER OF ROWS DISPLAYED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 100
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 1
DSNE621I NUMBER OF INPUT RECORDS READ IS 3
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 19

Query 6D:

```
---------+---------+---------+---------+---------+---------+---------+---------+
```
SELECT AVG(EVAL_SCORE) AS AVERAGE_EVALUATION   00010002
FROM PROJECT_ASSIGNMENT   00020000
WHERE CONS_ID = 100;   00030004
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
AVERAGE_EVALUATION
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
       98
DSNE610I NUMBER OF ROWS DISPLAYED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 100
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 1
DSNE621I NUMBER OF INPUT RECORDS READ IS 3
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 19

Query 6E:

```
---------+---------+---------+---------+---------+---------+---------+---------+
```

```
SELECT PROJECT_ID, SUM(TOTAL_HOURS) AS ACCUMULATED_HOURS          00010005
FROM PROJECT_ASSIGNMENT                                   00020001
GROUP BY PROJECT_ID                              00021004
HAVING SUM(TOTAL_HOURS) > 100;                         00030004
---------+---------+---------+---------+---------+---------+---------+---------+
 PROJECT_ID  ACCUMULATED_HOURS

---------+---------+---------+---------+---------+---------+---------+---------+
        1        323.00
        2        500.00
        3        200.00
        4        280.00
DSNE610I NUMBER OF ROWS DISPLAYED IS 4
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 100
---------+---------+---------+---------+---------+---------+---------+---------+
                               00040000
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 1
DSNE621I NUMBER OF INPUT RECORDS READ IS 5
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 24
```

Query 6F:

```
---------+---------+---------+---------+---------+---------+---------+---------+
SELECT C.CONS_LNAME, P.PROJECT_NAME                     00010002
FROM CONSULTANT C LEFT OUTER JOIN PROJECT_ASSIGNMENT A          00020013
ON C.CONS_ID = A.CONS_ID LEFT OUTER JOIN                00021012
PROJECT P ON A.PROJECT_ID = P.PROJECT_ID;               00030013
---------+---------+---------+---------+---------+---------+---------+---------+
CONS_LNAME        PROJECT_NAME
---------+---------+---------+---------+---------+---------+---------+---------+
DOE            FEDEX CONSULTING
STEVENS         DATABASE PROGRAMMING
STEVENS         GAMESTOP CONSULTING
PENNY           NETWORK INSTALL
PENNY           BESTBUY CONSULTING
GLASS           --------------------
CARTER          WALMART CONSULTING
CARTER          NETWORK INSTALL
MEYERS          DATABASE EXECUTION
DSNE610I NUMBER OF ROWS DISPLAYED IS 9
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 100
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
```

```
---------+---------+---------+---------+---------+---------+---------+---------+
```
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 1
DSNE621I NUMBER OF INPUT RECORDS READ IS 4
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 28

Query 6G:

```
---------+---------+---------+---------+---------+---------+---------+---------+
```
SELECT PROJECT_ID, CONS_ID,   00010000
((DAYS(FINISH_DATE) - DAYS(START_DATE))/30.1) AS TOTAL_MONTHS   00020009
FROM PROJECT_ASSIGNMENT;   00030000
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
 PROJECT_ID   CONS_ID   TOTAL_MONTHS
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
      1   2   1.960
      2   100   2.857
      3   2   .199
      4   3   1.029
      4   5   .863
      5   1 ----------------
      6   3 ----------------
      7   5 ----------------
DSNE610I NUMBER OF ROWS DISPLAYED IS 8
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 100
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 1
DSNE621I NUMBER OF INPUT RECORDS READ IS 3
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 26

Query 6H:

```
---------+---------+---------+---------+---------+---------+---------+---------+
```
SELECT CONCAT(CONCAT(CONS_FNAME, ' '), CONS_LNAME) AS FULL_NAME   00010063
FROM CONSULTANT WHERE CONS_ID IN   00020099
(SELECT CONS_ID FROM PROJECT_ASSIGNMENT WHERE CONS_ID NOT IN (100) AND 00020299
PROJECT_ID IN (SELECT PROJECT_ID FROM PROJECT WHERE   00020499
MANAGER_ID = 2));   00020599
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
FULL_NAME
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
MARK STEVENS
STEPHANIE PENNY
JAMES CARTER
DSNE610I NUMBER OF ROWS DISPLAYED IS 3
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 100

```
---------+---------+---------+---------+---------+---------+---------+---------+
```
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 1
DSNE621I NUMBER OF INPUT RECORDS READ IS 5
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 23

Query 6I

Part 1

```
---------+---------+---------+---------+---------+---------+---------+---------+
```
CREATE VIEW CERTIFICATION_VIEW AS   00010032
SELECT SKILL_ID,CONS_ID FROM   00020039
CONS_SKILL WHERE CERTIFICATE = 'Y';   00030040
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
                                    00040038
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 1
DSNE621I NUMBER OF INPUT RECORDS READ IS 4
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 16

Part 2

```
---------+---------+---------+---------+---------+---------+---------+---------+
```
SELECT S.SKILL_DESCRIPTION, S.SKILL_ID, C.CONS_ID   00010005
FROM SKILL S FULL OUTER JOIN   00011005
CERTIFICATION_VIEW C ON S.SKILL_ID = C.SKILL_ID;   00020006
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
SKILL_DESCRIPTION   SKILL_ID   CONS_ID
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
CONSULTING   1 -----------
PROGRAMMING   2   2
NETWORKING   3   100
NETWORKING   3   5
MICROSOFT OFFICE   4   4
MICROSOFT OFFICE   4   2
STATISTICS   5   1
DSNE610I NUMBER OF ROWS DISPLAYED IS 7
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 100
```
---------+---------+---------+---------+---------+---------+---------+---------+
```
                                    00030006
```
---------+---------+---------+---------+---------+---------+---------+---------+
```

DSNE617I COMMIT PERFORMED, SQLCODE IS 0

DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0

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

DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72

DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 1

DSNE621I NUMBER OF INPUT RECORDS READ IS 4

DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 26

Query Questions #7:

Query 7A:
Description:

- This query allows you view the project name, skill_id, the required_task, and the client_id associated with each project_id through an outer join from two tables. Allows for a better description of what each project requires and the client associated with it.

```
---------+---------+---------+---------+---------+---------+---------+---------+
SELECT P.PROJECT_NAME, S.SKILL_ID, S.REQUIRED_TASK,P.CLIENT_ID        00010005
FROM PROJECT_SKILL S LEFT OUTER JOIN PROJECT P ON S.PROJECT_ID        00020003
= P.PROJECT_ID ORDER BY PROJECT_NAME;                                 00030006
---------+---------+---------+---------+---------+---------+---------+---------+
PROJECT_NAME          SKILL_ID  REQUIRED_TASK          CLIENT_ID
---------+---------+---------+---------+---------+---------+---------+---------+
BESTBUY CONSULTING          1  NEW IT HARDWARE              3
DATABASE EXECUTION          5  ORGANIZE TEAM & PLAN         1
DATABASE PROGRAMMING        2  WRITE DB CODE                1
FEDEX CONSULTING            1  FREIGHT EFFICIENCY           2
GAMESTOP CONSULTING         2  WRITE SOFTWARE CODE          5
GAMESTOP CONSULTING         1  IT SOFTWARE DEVELOPMENT      5
NETWORK INSTALL             3  IMPLEMENT NETWORK SYSTEM     1
WALMART CONSULTING          1  IT OUTSOURCING               4
DSNE610I NUMBER OF ROWS DISPLAYED IS 8
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 100
---------+---------+---------+---------+---------+---------+---------+---------+
                              00040004
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 1
DSNE621I NUMBER OF INPUT RECORDS READ IS 4
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 27
```

Query 7B:
Description:

- This query allows you to view which consultants have gotten a high evaluations, and if they've gotten multiple high evaluations.

```
---------+---------+---------+---------+---------+---------+---------+---------+
SELECT CONS_ID, COUNT(EVAL_SCORE) AS NUM_OF_A FROM PROJECT_ASSIGNMENT   00010010
WHERE EVAL_SCORE BETWEEN 90 AND 100                         00011010
GROUP BY CONS_ID HAVING COUNT(EVAL_SCORE) > 0;              00020010
```

```
---------+---------+---------+---------+---------+---------+---------+---------+
  CONS_ID    NUM_OF_A
---------+---------+---------+---------+---------+---------+---------+---------+
     2       1
     3       1
     5       1
    100      1
DSNE610I NUMBER OF ROWS DISPLAYED IS 4
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 100
---------+---------+---------+---------+---------+---------+---------+---------+
                                  00030010
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 1
DSNE621I NUMBER OF INPUT RECORDS READ IS 4
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 23
```

Query 7C:

Description:

- This query allows you to view certain projects where the consultants assigned to that project are certified in the skill needed to do that job.

```
SELECT PROJECT_ID, SKILL_ID FROM PROJECT_SKILL WHERE SKILL_ID IN       00010006
(SELECT SKILL_ID FROM SKILL WHERE SKILL_ID IN (              00020006
SELECT SKILL_ID FROM CONS_SKILL WHERE CERTIFICATE = 'Y'))          00030007
ORDER BY PROJECT_ID;                                00040007
---------+---------+---------+---------+---------+---------+---------+---------+
 PROJECT_ID    SKILL_ID
---------+---------+---------+---------+---------+---------+---------+---------+
     1         2
     2         5
     3         2
     4         3
DSNE610I NUMBER OF ROWS DISPLAYED IS 4
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 100
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 1
DSNE621I NUMBER OF INPUT RECORDS READ IS 4
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 23
```

Query 7D:
Description:

This query allows you view names of projects that begin with the letter 'D', also lets you filter out those projects based on the required Skill_Id, which in my case is Skill_Id 2. Without that subquery filtering our project names out, we would have the Database Execution project showing with the Database Programing project.

```
---------+---------+---------+---------+---------+---------+---------+---------+
SELECT * FROM PROJECT WHERE PROJECT_NAME LIKE 'D%' AND PROJECT_ID IN    00010003
(SELECT PROJECT_ID FROM PROJECT_SKILL WHERE SKILL_ID = 2);          00020010
---------+---------+---------+---------+---------+---------+---------+---------+
 PROJECT_ID  PROJECT_NAME      MANAGER_ID   CLIENT_ID   PARENT_ID
---------+---------+---------+---------+---------+---------+---------+---------+
        3  DATABASE PROGRAMMING      2      1      2
DSNE610I NUMBER OF ROWS DISPLAYED IS 1
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 100
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 1
DSNE621I NUMBER OF INPUT RECORDS READ IS 2
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 18
```

Query 7E:
Description:

This query allows you to view certain projects where consultants with the ID of 1 and 2 are assigned to or whichever consultants of your choosing, along with the details of those projects.

```
---------+---------+---------+---------+---------+---------+---------+---------+
SELECT * FROM PROJECT_ASSIGNMENT WHERE CONS_ID IN (1,2) ORDER BY      00010006
PROJECT_ID;                              00020006
---------+---------+---------+---------+---------+---------+---------+---------+---------+
 PROJECT_ID    CONS_ID START_DATE FINISH_DATE TOTAL_HOURS EVAL_DATE   EVAL_SCORE
---------+---------+---------+---------+---------+---------+---------+---------+---------+
     1      2 2015-01-05 2015-03-05     323.00 2015-03-06      85
     3      2 2015-03-30 2015-04-05     200.00 2015-04-07      95
     5      1 2015-05-06 -----------    10.00 ---------- -----------
DSNE610I NUMBER OF ROWS DISPLAYED IS 3
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 100
---------+---------+---------+---------+---------+---------+---------+---------+---------+
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+---------+
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 1
```

DSNE621I NUMBER OF INPUT RECORDS READ IS 2
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 20

Query 7F:

Description:

- This query allows you to view the consultant who are currently assigned to projects, and the amount of projects they are currently assigned to.

```
---------+---------+---------+---------+---------+---------+---------+
SELECT CONS_ID, COUNT(DISTINCT PROJECT_ID) AS NUM_OF_PROJECTS        00010002
FROM PROJECT_ASSIGNMENT                                  00011002
GROUP BY CONS_ID;                             00020001
---------+---------+---------+---------+---------+---------+---------+---------+
  CONS_ID  NUM_OF_PROJECTS
---------+---------+---------+---------+---------+---------+---------+---------+
      1          1
      2          2
      3          2
      5          2
     100          1
DSNE610I NUMBER OF ROWS DISPLAYED IS 5
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 100
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
---------+---------+---------+---------+---------+---------+---------+---------+
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 1
DSNE621I NUMBER OF INPUT RECORDS READ IS 3
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 23
```