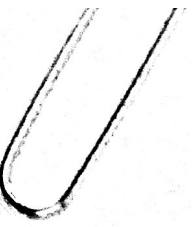


CONSULTING DATABASE

Supplemental Handout

ITAI65 DATABASE DEVELOPMENT



CONSULTING INC.

Consulting Incorporated is a consulting firm in Seattle, WA.

- Track the following tables:
 - Assignment:
 - Number
 - Date
 - Project Number
 - Employee Number
 - Job Code
 - Hours
 - Charge Hour
 - Charge
 - Client:
 - Number
 - Last Name
 - First Name
 - Middle Initial
 - Address
 - City
 - State
 - Zip
 - Area Code
 - Phone

- Employee:
 - Number
 - Last Name
 - First Name
 - Middle Initial
 - Date of Birth
 - Veteran
- Job:
 - Code
 - Assign Description
- Project:
 - Number
 - Name
 - Client Number
 - Cost
 - Open Date
 - Manager
 - Coordinator
- Skill:
 - Employee Number
 - Job Code
 - Date

Analyze the data for each table.
ASSIGNMENT TABLE:

ASSIGN_NUM	ASSIGN_DATE	PROJ_NUM	EMP_NUM	JOB_CODE	ASSIGN_HOURS	ASSIGN_CHG_HR	ASSIGN_CHARGE
1	20-Jun-99	127	3	DSD	2.60	\$175.00	\$455.00
2	20-Jun-99	123	6	SMD	1.80	\$85.00	\$153.00
3	20-Jun-99	123	6	SAN	2.00	\$145.00	\$290.00
4	20-Jun-99	126	2	NAD	3.70	\$120.00	\$444.00
5	20-Jun-99	128	7	DSS	3.20	\$79.50	\$254.40
6	20-Jun-99	127	2	DSD	2.90	\$175.00	\$507.50
7	20-Jun-99	123	7	DSD	2.90	\$175.00	\$507.50
8	20-Jun-99	125	5	NAD	1.50	\$120.00	\$180.00
9	20-Jun-99	124	3	DSD	2.30	\$175.00	\$402.50
10	20-Jun-99	127	5	NAD	4.30	\$120.00	\$516.00
11	20-Jun-99	123	3	DSD	3.80	\$175.00	\$665.00
12	21-Jun-99	126	7	DAN	1.50	\$95.00	\$142.50
13	21-Jun-99	127	6	SAN	5.00	\$145.00	\$725.00
14	21-Jun-99	125	3	DSD	2.90	\$175.00	\$507.50
15	21-Jun-99	123	6	SMD	3.80	\$85.00	\$323.00
16	21-Jun-99	128	5	NAD	4.10	\$120.00	\$492.00
17	21-Jun-99	123	7	DAN	6.30	\$95.00	\$598.50
18	21-Jun-99	125	2	NAD	11.20	\$120.00	\$1,344.00
19	21-Jun-99	125	3	DSD	2.80	\$175.00	\$490.00
20	01-Feb-99	123	1	SMD	2.00	\$85.00	\$170.00

CLIENT TABLE:

CLIENT_NUM	CLIENT_LNAME	CLIENT_FNAME	CLIENT_INITIAL	CLIENT_ADDRESS	CLIENT_CITY	CLIENT_STATE	CLIENT_ZIP	CLIENT_AREACODE	CLIENT_PHONE
112	Chasteen	Anne	R	1234 Rose Lane	Murfreesboro	TN	37130	615	123-2345
114	Williamson	Kirby	T	2345 Grove Street	Nashville	TN	32001	615	234-5678
115	Quatoty	Herman		3456 Waterford Rd.	Nashville	TN	32001	615	239-9876
118	Smith	Mary	M	4567 Oleander Blvd.	Owensboro	KY	38345	652	456-6543
122	Taylor	Christopher	F	5678 Treeline Rd.	Murfreesboro	TN	37130	615	238-3344
123	Trevors	Anne	K	6789 Sweetwater Dr.	Louisville	KY	39932	654	654-9001

EMPLOYEE TABLE:

EMP_NUM	EMP_LNAME	EMP_FNAME	EMP_INITIAL	EMP_DOB	EMP_VETERAN
1	Dempsey	John	R	Wednesday, December 02, 1970	No
2	Smithson	Susan	B	Saturday, April 11, 1964	Yes
3	Smith	James	D	Sunday, September 23, 1973	No
4	McDermott	Anne	W	Friday, November 28, 1975	No
5	Cheng	George		Friday, July 09, 1971	Yes
6	Jackson	Mare	J	Saturday, October 16, 1971	No
7	Hernandez	Carlos	M	Friday, April 23, 1965	No

JOB TABLE:

JOB CODE	JOB DESCRIPTION
ACT	Accountant
DAN	Data Analyst
DSD	Database Systems Designer
DSS	Decision Support Systems Specialist
NAD	Network Administrator
NIN	Network Installer
SAN	Systems Analyst
SMO	Statistical Modeler

PROJECT TABLE:

PROJECT

PROJ_NUM	PROJ_NAME	CLIENT_NUM	PROJ_COST	PROJ_OPEN_DATE	PROJ_MANAGER	PROJ_COORDINATOR
123	Rock Veil	118	\$2,707.00	Monday, May 12, 1997	2	5
124	Willow Branch	122	\$785,000.00	Monday, August 24, 1998	7	3
125	Tin Roof	114	\$4,557,500.00	Tuesday, May 12, 1998	6	5
126	Freeze	112	\$1,080,000.00	Tuesday, March 30, 1999	5	2
127	Rumble Seat	118	\$3,010,000.00	Thursday, June 11, 1998	2	6
128	Fancy Flight	114	\$6,805,000.00	Tuesday, June 22, 1999	5	7

SKILL TABLE:

SKILL

EMP_NUM	JOB_CODE	SKILL_DATE
- 2	DSD -	Monday, November 09, 1998
- 2	NAD	Friday, February 14, 1997
3	DSD -	Thursday, April 11, 1996
5	NAD	Tuesday, December 05, 1995
6	SAN	Monday, July 23, 1990
6	SMO	Wednesday, September 02, 1992
- 7	DAN	Friday, November 28, 1997
- 7	DSD	Tuesday, June 22, 1999
- 7	DSS	Monday, May 17, 1993

Step One:

Assume you have been hired as a consultant by Consulting Database to help them design a database. They have provided you with the following information concerning their existing data. You are to create a Relational Schema, ERDs, and Data Dictionary for your designed database.

Step Two:

Create the appropriate tables to track the data in SQL. Include all information relating to the composition of each field and each table.

Step Three:

Perform the queries attached in SQL to test the validity of your data and table composition.

Step Four:

Hand in the following: Relational Schema, ERD, Data Dictionary, Good Run, and SQL Queries. Place your finished application in a folder called Consulting Database on your Drive.

Queries for Consulting Incorporated:

Write the SQL code for each of the queries below. Execute the SQL query then copy and paste each result to a notepad document called Consulting Incorporated. Label each query. Example: query 1, query 2, etc. Print the notepad document when completed.

1. List the Projects that had the Job Code of DSD.
2. List all the employees who are employee veterans.
3. How many projects did employee 7 work on?
4. List all the clients from the state of Tennessee.
5. What is the total amount of assignment charges accrued by project 125?
6. Which projects has more than 4 assignment hours?
7. What was the total cost for all projects undertaken by Consulting Incorporated?
8. How many assignments did each project have?
9. Which job had the most assignments?
10. How much did each employee make based upon the number of assignments they completed?

