

## Volunteer Placement Database

Authors: Mohammad Nafees, Mahfuzealahi Noman, Tanvir Forazi, Tahmeed Anjum

*Department of Computer Science, Kulliyah of Information and Communication Technology, International  
Islamic University Malaysia, Kuala Lumpur, Malaysia.*

*zamannafees@gmail.com, noman.alahi@gmail.com*

### **Author Note**

This report holds all the information about the group project of Database Programming.

*1616357, 1515803, 1432511, 1428753*

*Section: 02*

*Date: 12/12/2018*

*Submitted to: Dr. Mira Kartiwi*

**Abstract**

Our group has completed all the task regarding this project. Every information has mentioned below that is asked in the group project. We used sql server and sql developer tool for the coding.

**Data Dictionary**

DROP TABLE ASSIGNMENT cascade constraints;  
DROP TABLE SKILL cascade constraints;  
DROP TABLE SHELTER cascade constraints;  
DROP TABLE VOLUNTEER cascade constraints;  
DROP TABLE STAFF cascade constraints;

CREATE TABLE STAFF  
(SID NUMBER(3),  
S\_NAME VARCHAR2(25) NOT NULL,  
S\_ADDRESS VARCHAR2(40) NOT NULL,  
S\_EMAIL VARCHAR2(25) NOT NULL,  
S\_PHONE VARCHAR2(15) NOT NULL,  
CONSTRAINT STAFF\_SID\_PK PRIMARY KEY (SID));

CREATE TABLE VOLUNTEER  
(VID NUMBER(3),  
V\_NAME VARCHAR2(25) NOT NULL,  
V\_ADDRESS VARCHAR2(40) NOT NULL,  
V\_DOB DATE,  
V\_EMAIL VARCHAR2(25) NOT NULL,  
V\_PHONE VARCHAR2(15) NOT NULL,  
CONSTRAINT VOLUNTEER\_VID\_PK PRIMARY KEY (VID));

CREATE TABLE SHELTER  
(SHID NUMBER(3),  
SH\_NAME VARCHAR2(20) NOT NULL,  
SH\_PHONE VARCHAR2(15),  
SID NUMBER(3) NOT NULL,  
CONSTRAINT SHELTER\_SHID\_PK PRIMARY KEY (SHID),  
CONSTRAINT SHELTER\_SID\_FK FOREIGN KEY(SID)  
REFERENCES STAFF);

CREATE TABLE SKILL  
(SKID NUMBER(3),  
VID NUMBER(3) NOT NULL,  
SK\_NAME VARCHAR2(40) NOT NULL,  
SK\_CERTIFICATON VARCHAR2(25),

```
SK_CERTDATE          DATE NOT NULL,
    CONSTRAINT SKILL_SKID_PK PRIMARY KEY (SKID),
    CONSTRAINT SKILL_VID_FK FOREIGN KEY(VID)
        REFERENCES VOLUNTEER);

CREATE TABLE ASSIGNMENT
(AID                  NUMBER(3),
VID                  NUMBER(3) NOT NULL,
SHID                 NUMBER(3) NOT NULL,
START_DATE           DATE NOT NULL,
FINISH_DATE          DATE NOT NULL,
JOB_ROLE             VARCHAR2(50),
    CONSTRAINT ASSIGNMENT_AID_PK PRIMARY KEY (AID),
    CONSTRAINT ASSIGNMENT_VID_FK FOREIGN KEY(VID) REFERENCES
VOLUNTEER,
    CONSTRAINT ASSIGNMENT_SHID_FK FOREIGN KEY(SHID) REFERENCES
SHELTER
);
```

### **Insert Data**

```
INSERT INTO STAFF
VALUES(101, 'Ali', 'Batu Caves' , 'ali.akbar@gmail.com', '011723564');
```

```
INSERT INTO STAFF
VALUES(102, 'Ahmad', 'Taman Melati' , 'ahmad12@gmail.com', '012723344');
```

```
INSERT INTO STAFF
VALUES(103, 'Abid', 'Gombak' , 'abidbid@gmail.com', '012563481');
```

```
INSERT INTO STAFF
VALUES(104, 'Mahfuz', 'Putrajaya' , 'noman.alahi@gmail.com', '011729714');
```

```
INSERT INTO STAFF
VALUES(105, 'Zaman', 'Cyberjaya' , 'zamannafees@gmail.com', '011466955');
```

```
INSERT INTO STAFF
VALUES(106, 'Sam', 'Shunghai Buloh' , 'sam.shariful@gmail.com', '016984562');
```

```
INSERT INTO STAFF  
VALUES(107, 'Tarif', 'Shunghai Chinchin' , 'tarifali97@gmail.com', '011543285');
```

```
INSERT INTO STAFF  
VALUES(108, 'Raju', 'Gombak' , 'raju_php@gmail.com', '017845692');
```

```
INSERT INTO STAFF  
VALUES(109, 'Zulkifli', 'Gombak' , 'zulk1234@gmail.com', '019563214');
```

```
INSERT INTO STAFF  
VALUES(110, 'Aiman', 'Batu Caves' , 'aimanrahman@gmail.com', '018256984');
```

```
INSERT INTO STAFF  
VALUES(111, 'Nur Shafini', 'Serdang' , 'nurshafini@gmail.com', '013456812');
```

```
INSERT INTO STAFF  
VALUES(112, 'Sakina', 'Batu Caves' , 'sakinafyp@gmail.com', '011783564');
```

```
INSERT INTO STAFF  
VALUES(113, 'Rubayet', 'Wangsa Maju' , 'rubayet296@gmail.com', '011730364');
```

```
INSERT INTO STAFF  
VALUES(114, 'Nur Shuhada', 'Batu Caves' , 'shuahdanur@gmail.com', '011863564');
```

```
INSERT INTO STAFF  
VALUES(115, 'Fauzi', 'Setapak' , 'fauziict@gmail.com', '018729964');
```

```
INSERT INTO STAFF  
VALUES(116, 'Marina', 'Setapak' , 'marinaghani@gmail.com', '011330564');
```

```
INSERT INTO VOLUNTEER
VALUES(301, 'Ashfaq', 'Setapak', TO_DATE('01-JAN-1996'), 'ashfaqnipun@gmail.com',
'011630764');
```

```
INSERT INTO VOLUNTEER
VALUES(302, 'Mohammed safi', 'Gombak', TO_DATE('10-FEB-1992'),
'mohd.safi@gmail.com', '012600764');
```

```
INSERT INTO VOLUNTEER
VALUES(303, 'Nur Azlin', 'Setapak', TO_DATE('07-JAN-1994'), 'azlin123@gmail.com',
'011830774');
```

```
INSERT INTO VOLUNTEER
VALUES(304, 'Nur Alia', 'Batu Caves', TO_DATE('23-MAR-1992'),
'alia1992@gmail.com', '017634764');
```

```
INSERT INTO VOLUNTEER
VALUES(305, 'Afiq', 'Setapak', TO_DATE('12-JUL-1990'), 'afiqcoder@gmail.com',
'01163056');
```

```
INSERT INTO VOLUNTEER
VALUES(306, 'Taufik', 'Batu Caves', TO_DATE('21-MAR-1993'), 'tau789@gmail.com',
'011826764');
```

```
INSERT INTO VOLUNTEER
VALUES(307, 'Akmal', 'Selangor', TO_DATE('08-DEC-1994'), 'akmal657@gmail.com',
'018550564');
```

```
INSERT INTO VOLUNTEER
VALUES(308, 'Amir', 'Selangor', TO_DATE('21-FEB-1995'), 'amir.hamza@gmail.com',
'015430772');
```

```
INSERT INTO VOLUNTEER
VALUES(309, 'Amirul', 'Gombak', TO_DATE('16-JUN-1992'),
'amirul_aiman@gmail.com', '011110764');
```

```
INSERT INTO VOLUNTEER
VALUES(310, 'Siti hanna', 'Batu Caves', TO_DATE('25-AUG-1994'),
'sitihanna94@gmail.com', '018120764');
```

```
INSERT INTO VOLUNTEER
```

```
VALUES(311, 'Siti Nabila', 'Wangsa Maju', TO_DATE('14-JAN-1992'),  
'nabila019@gmail.com', '0172220164');
```

```
INSERT INTO VOLUNTEER  
VALUES(312, 'Nurul aisha', 'Taman Melati', TO_DATE('16-FEB-1994'),  
'aisha493@gmail.com', '012637864');
```

```
INSERT INTO VOLUNTEER  
VALUES(313, 'Shyami', 'Setapak', TO_DATE('02-MAY-1994'),  
'shyami.mohd@gmail.com', '012636764');
```

```
INSERT INTO VOLUNTEER  
VALUES(314, 'Luqman', 'Wangsa Maju', TO_DATE('03-FEB-1995'),  
'luqmanhakim@gmail.com', '011050764');
```

```
INSERT INTO VOLUNTEER  
VALUES(315, 'Maryam', 'Taman Melati', TO_DATE('19-JAN-1992'),  
'maryam.mr@gmail.com', '0112370764');
```

```
INSERT INTO SHELTER  
VALUES(515, 'Shelter Home', '03-212 4452', 101);
```

```
INSERT INTO SHELTER  
VALUES(516, 'Agathians Shelter', '03-202 6352', 111);
```

```
INSERT INTO SHELTER  
VALUES(517, 'Crisis Relief', '03-214 8752', 112);
```

```
INSERT INTO SHELTER
```

VALUES(518, 'Second Chance', '03-212 2682', 115);

INSERT INTO SHELTER

VALUES(519, 'Malaysian Relief', '03-205 9652', 101);

INSERT INTO SHELTER

VALUES(520, 'Shelter Home', '03-209 4452', 108);

INSERT INTO SHELTER

VALUES(521, 'Islamic Relief', '04-287 2258', 109);

INSERT INTO SHELTER

VALUES(522, 'Taman Maluri Shelter', '04-265 2578', 110);

INSERT INTO SHELTER

VALUES(523, 'Twins of Faith', '04-236 1128', 105);

INSERT INTO SHELTER

VALUES(524, 'Red Crescent Shelter', '04-242 1028', 106);

INSERT INTO SHELTER

VALUES(525, 'Al Aqsa Shelter', '04-219 2282', 109);

INSERT INTO SHELTER

VALUES(526, 'Al Maryam Shelter', '04-285 2138', 108);

INSERT INTO SHELTER

VALUES(527, 'Umar Ibn Shelter', '04-232 1179', 104);

INSERT INTO SHELTER

VALUES(528, 'Sedekah Shelter', '04-215 2152', 103);

INSERT INTO SHELTER

VALUES(529, 'Gift of Hope Shelter', '07-274 2998', 111);

INSERT INTO SHELTER

VALUES(530, 'Al Yateem Shelter', '07-296 2638', 113);



```
INSERT INTO SKILL  
VALUES(901, 301, 'Leadership', 'BSBLDR403',TO_DATE('19-JAN-2012'));
```

```
INSERT INTO SKILL  
VALUES(902, 302, 'Leadership', 'BSBWOR404',TO_DATE('09-JAN-2013'));
```

```
INSERT INTO SKILL  
VALUES(903, 303, 'Communication', 'CHCCOM002',TO_DATE('11-OCT-2012'));
```

```
INSERT INTO SKILL  
VALUES(904, 304, 'Time Management', 'TTBLDR423',TO_DATE('13-SEP-2012'));
```

```
INSERT INTO SKILL  
VALUES(905, 305, 'Professionalism', 'PRBSMR203',TO_DATE('19-MAY-2014'));
```

```
INSERT INTO SKILL  
VALUES(906, 306, 'Public relation', 'PRLRLDR110',TO_DATE('29-AUG-2016'));
```

```
INSERT INTO SKILL  
VALUES(907, 307, 'Teachabilty', 'TCALDR317',TO_DATE('17-MAY-2014'));
```

```
INSERT INTO SKILL  
VALUES(908, 308, 'IT skills', 'ITSKBR441',TO_DATE('10-JAN-2013'));
```

```
INSERT INTO SKILL  
VALUES(909, 309, 'Planning', 'PPLNGR003',TO_DATE('10-NOV-2011'));
```

```
INSERT INTO SKILL  
VALUES(910, 310, 'Problem Solving', 'PBSLDR113',TO_DATE('20-SEP-2012'));
```

```
INSERT INTO SKILL  
VALUES(911, 311, 'Leadership', 'BSBLDR403',TO_DATE('13-JUL-2016'));
```

```
INSERT INTO SKILL  
VALUES(912, 312, 'Public relation', 'PRLRLDR110',TO_DATE('11-FEB-2017'));
```

```
INSERT INTO SKILL  
VALUES(913, 313, 'IT skills', 'ITSKBR441',TO_DATE('25-JUL-2011'));
```

```
INSERT INTO SKILL  
VALUES(914, 314, 'Planning', 'PPLNGR003',TO_DATE('21-JUL-2016'));
```

```
INSERT INTO SKILL  
VALUES(915, 315, 'Training', 'TRNZDR563', TO_DATE('04-JUN-2015'));
```

```
INSERT INTO ASSIGNMENT  
VALUES(801, 301, 515, TO_DATE('04-JAN-2018'), TO_DATE('24-MAY-2018'),  
'Leader');
```

```
INSERT INTO ASSIGNMENT  
VALUES(802, 313, 516, TO_DATE('05-JUN-2018'), TO_DATE('24-JUN-2018'), 'IT  
Expert');
```

```
INSERT INTO ASSIGNMENT  
VALUES(803, 314, 517, TO_DATE('14-JUL-2018'), TO_DATE('24-AUG-2018'),  
'Trainer');
```

```
INSERT INTO ASSIGNMENT  
VALUES(804, 314, 518, TO_DATE('11-MAR-2018'), TO_DATE('20-APR-2018'),  
'Planner');
```

```
INSERT INTO ASSIGNMENT  
VALUES(805, 301, 519, TO_DATE('02-JUN-2018'), TO_DATE('28-AUG-2018'),  
'Leader');
```

```
INSERT INTO ASSIGNMENT  
VALUES(806, 302, 520, TO_DATE('23-FEB-2018'), TO_DATE('24-AUG-2018'),  
'Teacher');
```

```
INSERT INTO ASSIGNMENT  
VALUES(807, 303, 521, TO_DATE('13-AUG-2018'), TO_DATE('24-SEP-2018'), 'IT  
Expert');
```

```
INSERT INTO ASSIGNMENT  
VALUES(808, 304, 515, TO_DATE('17-APR-2018'), TO_DATE('12-JUN-2018'),  
'Consultant');
```

```
INSERT INTO ASSIGNMENT  
VALUES(809, 305, 515, TO_DATE('09-MAR-2018'), TO_DATE('20-OCT-2018'),  
'Leader');
```

```
INSERT INTO ASSIGNMENT
```

```
VALUES(810, 306, 515, TO_DATE('11-JUL-2018'), TO_DATE('24-JUL-2018'), 'Public  
Relation');
```

```
INSERT INTO ASSIGNMENT  
VALUES(811, 307, 521, TO_DATE('14-JUN-2018'), TO_DATE('24-JUN-2018'),  
'Leader');
```

```
INSERT INTO ASSIGNMENT  
VALUES(812, 308, 521, TO_DATE('12-JAN-2018'), TO_DATE('07-APR-2018'),  
'Leader');
```

```
INSERT INTO ASSIGNMENT  
VALUES(813, 309, 521, TO_DATE('04-APR-2018'), TO_DATE('27-JUN-2018'),  
'Leader');
```

```
INSERT INTO ASSIGNMENT  
VALUES(814, 310, 521, TO_DATE('07-NOV-2018'), TO_DATE('19-NOV-2018'),  
'Leader');
```

```
INSERT INTO ASSIGNMENT  
VALUES(815, 311, 521, TO_DATE('13-JAN-2018'), TO_DATE('11-FEB-2018'),  
'Leader');
```

```
INSERT INTO ASSIGNMENT  
VALUES(816, 312, 515, TO_DATE('04-MAY-2018'), TO_DATE('30-JUN-2018'),  
'Leader');
```

**Sample Data of each table**

SHID	SH_NAME	SH_PHONE	SID
515	Shelter Home	03-212 4452	101
516	Agathians Shelter	03-202 6352	111
517	Crisis Relief	03-214 8752	112
518	Second Chance	03-212 2682	115
519	Malaysian Relief	03-205 9652	101
520	Shelter Home	03-209 4452	108
521	Islamic Relief	04-287 2258	109
522	Taman Maluri Shelter	04-265 2578	110
523	Twins of Faith	04-236 1128	105
524	Red Crescent Shelter	04-242 1028	106
525	Al Aqsa Shelter	04-219 2282	109
526	Al Maryam Shelter	04-285 2138	108
527	Umar Ibn Shelter	04-232 1179	104
528	Sedekah Shelter	04-215 2152	103
529	Gift of Hope Shelter	07-274 2998	111
530	Al Yateem Shelter	07-296 2638	113

SID	S_NAME	S_ADDRESS	S_EMAIL	S_PHONE
101	Ali	Batu Caves	ali.akbar@gmail.com	011723564
102	Ahmad	Taman Melati	ahmad12@gmail.com	012723344
103	Abid	Gombak	abidbid@gmail.com	012563481
104	Mahfuz	Putrajaya	noman.alahi@gmail.com	011729714
105	Zaman	Cyberjaya	zamannafees@gmail.com	011466955
106	Sam	Shunghai Buloh	sam.shariful@gmail.com	016984562
107	Tarif	Shunghai Chinchin	tarifali97@gmail.com	011543285
108	Raju	Gombak	raju_php@gmail.com	017845692
109	Zulkifli	Gombak	zulk1234@gmail.com	019563214
110	Aiman	Batu Caves	aimanrahman@gmail.com	018256984
111	Nur Shafini	Serdang	nurshafini@gmail.com	013456812
112	Sakina	Batu Caves	sakinafyp@gmail.com	011783564
113	Rubayet	Wangsa Maju	rubayet296@gmail.com	011730364
114	Nur Shuhada	Batu Caves	shuahdanur@gmail.com	011863564
115	Fauzi	Setapak	fauziict@gmail.com	018729964
116	Marina	Setapak	marinaghani@gmail.com	011330564

VID	V_NAME	V_ADDRESS	V_DOB	V_EMAIL	V_PHONE
301	Ashfaq	Setapak	01-JAN-96	ashfaqnipun@gmail.com	011630764
302	Mohammed safi	Gombak	10-FEB-92	mohd.safi@gmail.com	012600764
303	Nur Azlin	Setapak	07-JAN-94	azlin123@gmail.com	011830774
304	Nur Alia	Batu Caves	23-MAR-92	alia1992@gmail.com	017634764
305	Afiq	Setapak	12-JUL-90	afiqcoder@gmail.com	01163056
306	Taufik	Batu Caves	21-MAR-93	tau789@gmail.com	011826764
307	Akmal	Selangor	08-DEC-94	akmal657@gmail.com	018550564
308	Amir	Selangor	21-FEB-95	amir.hamza@gmail.com	015430772
309	Amirul	Gombak	16-JUN-92	amirul_aiman@gmail.com	011110764
310	Siti hanna	Batu Caves	25-AUG-94	sitihanna94@gmail.com	018120764
311	Siti Nabila	Wangsa Maju	14-JAN-92	nabila019@gmail.com	0172220164
312	Nurul aisha	Taman Melati	16-FEB-94	aisha493@gmail.com	012637864
313	Shyami	Setapak	02-MAY-94	shyami.mohd@gmail.com	012636764
314	Luqman	Wangsa Maju	03-FEB-95	luqmanhakim@gmail.com	011050764
315	Maryam	Taman Melati	19-JAN-92	maryam.mr@gmail.com	0112370764

AID	VID	SHID	START_DATE	FINISH_DATE	JOB_ROLE
801	301	515	04-JAN-18	24-MAY-18	Leader
802	313	516	05-JUN-18	24-JUN-18	IT Expert
803	314	517	14-JUL-18	24-AUG-18	Trainer
804	315	518	11-MAR-18	20-APR-18	Planner
805	301	519	02-JUN-18	28-AUG-18	Leader
806	302	520	23-FEB-18	24-AUG-18	Teacher
807	303	521	13-AUG-18	24-SEP-18	IT Expert
808	304	515	17-APR-18	12-JUN-18	Consultant
809	305	515	09-MAR-18	20-OCT-18	Leader
810	306	515	11-JUL-18	24-JUL-18	Public Relation
811	307	521	14-JUN-18	24-JUN-18	Leader
812	308	521	12-JAN-18	07-APR-18	Leader
813	309	521	04-APR-18	27-JUN-18	Leader
814	310	521	07-NOV-18	19-NOV-18	Leader
815	311	521	13-JAN-18	11-FEB-18	Leader
816	312	515	04-MAY-18	30-JUN-18	Leader

SKID	VID	SK_NAME	SK_CERTIFICATON	SK_CERTDATE
901	301	Leadership	BSBLDR403	19-JAN-12
902	302	Leadership	BSBW0R404	09-JAN-13
903	303	Communication	CHCCOM002	11-OCT-12
904	304	Time Management	TTBLDR423	13-SEP-12
905	305	Professionalism	PRBSMR203	19-MAY-14
906	306	Public relation	PRLRLDR110	29-AUG-16
907	307	Teachabilty	TCALDR317	17-MAY-14
908	308	IT skills	ITSKBR441	10-JAN-13
909	309	Planning	PPLNGR003	10-NOV-11
910	310	Problem Solving	PBSLDR113	20-SEP-12
911	311	Leadership	BSBLDR403	13-JUL-16
912	312	Public relation	PRLRLDR110	11-FEB-17
913	313	IT skills	ITSKBR441	25-JUL-11
914	314	Planning	PPLNGR003	21-JUL-16
915	315	Training	TRNZDR563	04-JUN-15



### Queries

-- Find the details of the shelter(s) with more than 4 (four) volunteers.

```
Select SHID, SH_NAME, SH_PHONE, COUNT(VID) AS N0_OF_VOLUNTEER
FROM SHELTER JOIN ASSIGNMENT USING (SHID)
GROUP BY SHID,SH_NAME, SH_PHONE
HAVING COUNT(VID)>4;
```

SHID	SH_NAME	SH_PHONE	N0_OF_VOLUNTEER
515	Shelter Home	03-212 4452	5
521	Islamic Relief	04-287 2258	6

-- Find the shelter with the most volunteers.

```
Select SHID, SH_NAME, SH_PHONE, COUNT(VID) AS N0_OF_VOLUNTEER
FROM SHELTER JOIN ASSIGNMENT USING (SHID)
GROUP BY SHID,SH_NAME, SH_PHONE
HAVING COUNT(VID)= (SELECT MAX(COUNT(VID))
                     FROM ASSIGNMENT
                     GROUP BY SHID);
```

SHID	SH_NAME	SH_PHONE	N0_OF_VOLUNTEER
521	Islamic Relief	04-287 2258	6

-- Find the staff that handle more than 1 (one) shelters.

```
SELECT SID, S_NAME, S_ADDRESS, S_EMAIL, S_PHONE, COUNT(SHID) AS
NO_OF_SHELTER
FROM STAFF JOIN SHELTER USING (SID)
GROUP BY SID, S_NAME, S_ADDRESS, S_EMAIL, S_PHONE
HAVING COUNT(SHID)>1;
```

SID	S_NAME	S_ADDRESS	S_EMAIL	S_PHONE	NO_OF_SHELTER
101	Ali	Batu Caves	ali.akbar@gmail.com	011723564	2
111	Nur Shafini	Serdang	nurshafini@gmail.com	013456812	2
108	Raju	Gombak	raju_php@gmail.com	017845692	2
109	Zulkifli	Gombak	zulk1234@gmail.com	019563214	2

-- List the name of volunteers who had been assigned more than 3 months to the same shelter.

```
SELECT V_NAME, SHID, TRUNC(((FINISH_DATE-START_DATE)/30),0) AS
DURATION
FROM ASSIGNMENT JOIN VOLUNTEER USING(VID)
WHERE TRUNC(((FINISH_DATE-START_DATE)/30),0) > 3;
```

V_NAME	SHID	DURATION
Ashfaq	515	4
Mohammed safi	520	6
Afiq	515	7

-- List the volunteers who has not been assigned to any shelter.

```
SELECT VID, V_NAME, V_ADDRESS, V_EMAIL, V_PHONE
FROM VOLUNTEER
WHERE VID NOT IN (SELECT VID
                  FROM ASSIGNMENT);
```

VID	V_NAME	V_ADDRESS	V_EMAIL	V_PHONE
315	Maryam	Taman Melati	maryam.mr@gmail.com	0112370764

### Functions and Procedures

```
--
create sequence vid_seq
start with 316;

create sequence sid_seq
start with 117;

--
set serveroutput on
set verify off

create or replace procedure add_vs
(sn in staff.s_name%TYPE,
sa in staff.s_address%TYPE,
se in staff.s_email%TYPE,
sp in staff.s_phone%TYPE,
vn in volunteer.v_name%TYPE,
va in volunteer.v_address%TYPE,
vd in volunteer.v_dob%TYPE,
ve in volunteer.v_email%TYPE,
vp in volunteer.v_phone%TYPE
)
as

begin
```

```
insert into staff values(sid_seq.NEXTVAL, sn, sa, se, sp);

dbms_output.put_line('A Staff record is inserted!');

insert into volunteer values(vid_seq.NEXTVAL, vn, va, to_date(vd), ve, vp);

dbms_output.put_line('A Volunteer record is inserted!');

end;
/

--
accept sn prompt 'Enter Staff Name: '
accept sa prompt 'Enter Address: '
accept se prompt 'Enter Email: '
accept sp prompt 'Enter Phone no.: '
accept vn prompt 'Enter Volunteer Name: '
accept va prompt 'Enter Address: '
accept vd prompt 'Enter DOB: '
accept ve prompt 'Enter Email: '
accept vp prompt 'Enter Phone no.: '

begin
add_vs('&sn', '&sa', '&se', '&sp', '&vn', '&va', '&vd', '&ve', '&vp');

end;
/
```

```
SQL> @ C:\Users\Noman\Documents\plsql_1.sql
Procedure created.

SQL> @ C:\Users\Noman\Documents\call_plsql_1.sql
Enter Staff Name: nafees
Enter Address: mahallah siddiq
Enter Email: nafees@gmail.com
Enter Phone no.: 01129232112
Enter Volunteer Name: noman
Enter Address: mahallah ali
Enter DOB: 09-DEC-94
Enter Email: noman@gmail.com
Enter Phone no.: 01129929387
A Staff record is inserted!
A Volunteer record is inserted!

PL/SQL procedure successfully completed.

SQL> _
```

--

set serveroutput on

set verify off

create or replace function get\_no\_v

(

v\_sid staff.sid%TYPE,

v\_shid shelter.shid%TYPE

)

return number

is

no\_v number(2);

begin

select count(vid)

into no\_v

from assignment join shelter using (shid)

where shid = v\_shid and sid = v\_sid;

return(no\_v);

end;

/

```
--
accept v_sid prompt 'Enter Staff ID: '
accept v_shid prompt 'Enter Shelter ID: '

declare
no_v number(2);

begin
no_v:= get_no_v(&v_sid, &v_shid);

if (no_v > 4) then dbms_output.put_line('ALLOCATE TO OTHER SHELTER. ');
end if;

end;
/
```

```
SQL> @ C:\Users\Noman\Documents\plsql_2.sql
Function created.
SQL> @ C:\Users\Noman\Documents\call_plsql_2.sql
Enter Staff ID: 109
Enter Shelter ID: 521
ALLOCATE TO OTHER SHELTER.
PL/SQL procedure successfully completed.
SQL> _
```

---

```
--
set serveroutput on
set verify off

create or replace procedure retrieve_detail
(v_vid in volunteer.vid%TYPE,
sd in assignment.start_date%TYPE
)

as
jr assignment.job_role%TYPE;
vn volunteer.v_name%TYPE;
v_shid shelter.shid%type;
sn staff.s_name%TYPE;
shn shelter.sh_name%TYPE;
```

```
begin

select job_role, v_name, shid
into jr, vn, v_shid
from volunteer join assignment using (vid)
where vid = v_vid and start_date = to_date(sd);

select sh_name, s_name
into shn,sn
from shelter join staff using(sid)
where shid = v_shid;

dbms_output.put_line('Job role: ' || jr);
dbms_output.put_line('Shelter Name: ' || shn);
dbms_output.put_line('Staff-in-charge: ' || sn);

end;
/

--
accept vid prompt 'Enter volunteer ID: '
accept sd prompt 'Enter start date of the assignment: '

begin
retrieve_detail(&vid, '&sd');

end;
/

--
SQL> @ C:\Users\Noman\Documents\plsql_3.sql

Procedure created.

SQL> @ C:\Users\Noman\Documents\call_plsql_3.sql
Enter volunteer ID: 305
Enter start date of the assignment: 09-MAR-2018
Job role: Leader
Shelter Name: Shelter Home
Staff-in-charge: Ali

PL/SQL procedure successfully completed.

SQL> _
```

---

```
--
set serveroutput on
set verify off

create or replace function get_pack
(
  v_shid shelter.shid%TYPE
)
return number
is
  pack number(2);
  no_v number(2);

begin
  select count(vid)
  into no_v
  from assignment
  where shid = v_shid;

  if no_v = 2 then pack:=25;
  elsif (no_v > 2 and no_v < 6) then pack:=60;
  end if;

  return(pack);

end;
/

--
accept v_shid prompt 'Enter shelter ID: '

declare
  pack number(2);

begin
  pack:= get_pack(&v_shid);

  case when pack > 0 then dbms_output.put_line('Logistic Packs/Month: ' || pack);
  else dbms_output.put_line('No logistic pack is allocated');
  end case;
```



```
end;  
/  
SQL> @ C:\Users\Noman\Documents\plsql_4.sql  
Function created.  
  
SQL> @ C:\Users\Noman\Documents\call_plsql_4.sql  
Enter shelter ID: 515  
Logistic Packs/Month: 60  
  
PL/SQL procedure successfully completed.  
SQL>
```

---

### **Contribution**

**Task 1:** Tahmeed Anjum

**Task 2:** Tanvir Forazi

**Task 3:** Mohammad Nafees

**Task 4:** Mahfuzealahi Noman

Report makers: Mohammad Nafees, Mahfuzealahi Noman.

**Thank You**