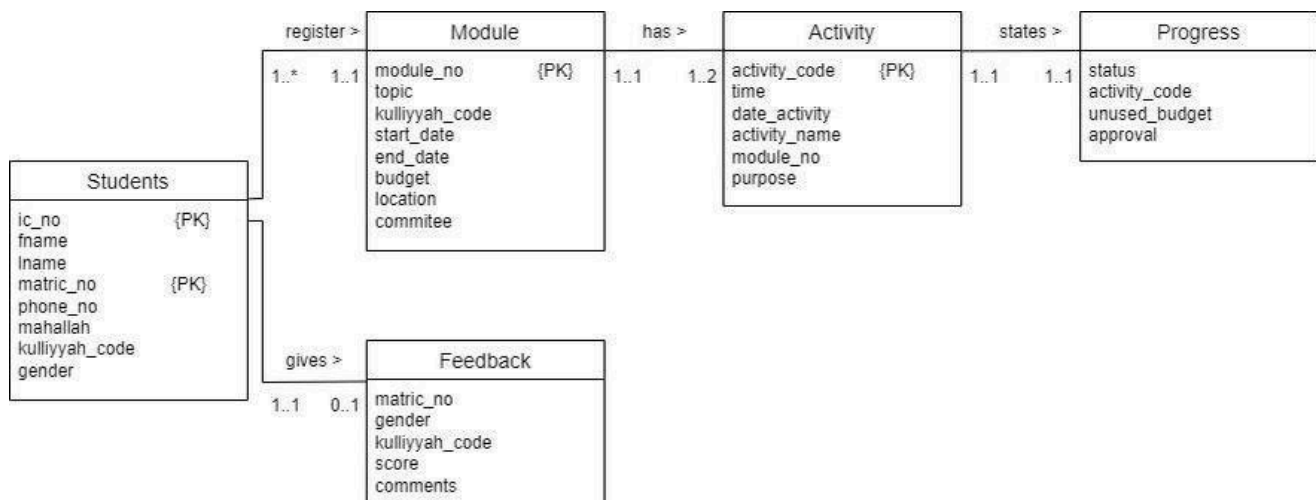


# Project : Ibadah Camp Management System ( IBMS )

## 1.0 Introduction

Ibadah Camp Management System is our group project main direction. We are trying to develop a system that has a big potential to manage the IIUM students, especially those who are joining ibadah camp. Basically, our main target for Ibadah Camp is for those who are not busy and have a lot of free time and also the students who are interested to learn more knowledge about Islam. The main purpose of Ibadah Camp is to give chances among students in order to increase the knowledge in Fardhu Ain like performing solat, reciting quran and fasting. So the reason why we are creating the system for Ibadah Camp Management is because we want to manage the data of this group of students effectively. Other than that, we also want to avoid any data of the students to be lost. Ibadah camp is one of the best platforms for students to enhance their knowledge in Islamic perspective.

## 2.0 Entity Relationship Diagram (ER Diagram)



Ibadah Camp Management System( IBMS ) ERD

### 3.0 Data dictionary for the ER diagram.

#### STUDENTS

ATTRIBUTE NAME	DATA TYPE	SIZE	NULL
ic no	VARCHAR2	20	NO {PK}
fname	VARCHAR	10	NO
lname	VARCHAR	10	NO
matric no	NUMBER	10	NO {PK}
phone no	VARCHAR2	20	NO
mahallah	VARCHAR2	10	NO
kulliyyah code	VARCHAR2	10	NO
gender	VARCHAR2	5	NO

#### MODULE

ATTRIBUTE NAME	DATA TYPE	SIZE	NULL
module no	VARCHAR2	10	NO {PK}
topic	VARCHAR2	50	NO
kulliyyah code	VARCHAR2	10	NO
start date	DATE		YES
end date	DATE		YES
budget	NUMBER		NO
location	VARCHAR2	100	NO
commitee	VARCHAR2	20	NO

#### ACTIVITY

ATTRIBUTE NAME	DATA TYPE	SIZE	NULL
activity code	VARCHAR2	10	NO {PK}
time	VARCHAR2	10	NO
date activity	DATE		NO
activity name	VARCHAR2	100	NO
module no	VARCHAR2	10	NO
purpose	VARCHAR2	100	NO

#### PROGRESS


ATTRIBUTE NAME	DATA TYPE	SIZE	NULL
status	VARCHAR2	20	NO
activity code	VARCHAR2	10	NO
unused budget	NUMBER	10	YES
approval	VARCHAR2	20	NO

**FEEDBACK**

ATTRIBUTE NAME	DATA TYPE	SIZE	NULL
matric no	NUMBER	10	NO {PK}
gender	VARCHAR2	5	YES
kulliyyah code	VARCHAR2	10	YES
score	NUMBER	1	YES
comments	VARCHAR2	100	YES

## Task 4

### 1. Table script.



## Run Script

You have requested to run a script containing statement(s) SQL Workshop will ignore. Please confirm your request.

Script Name	IBMS_Table.sql
Created	on 06/12/2023 03:26:53 PM by BADRIMAHAZIR09@GMAIL.COM
Updated	on 06/12/2023 03:26:54 PM by BADRIMAHAZIR09@GMAIL.COM
Number of Statements	10
Script Size in Bytes	1,595

Line Number	Unknown Statement
19	
33	
45	
54	
64	

CancelEdit ScriptRun Now

Script: 

IBMS\_Table.sql

Status: Complete

View:

Detail

Summary

Rows: 15

Go

Create App

Edit Script

Number	Elapsed	Statement	Feedback	Rows
1	1.01	DROP TABLE students	Table dropped.	0
2	0.96	DROP TABLE module	Table dropped.	0
3	0.98	DROP TABLE activity	Table dropped.	0
4	0.33	DROP TABLE progress	Table dropped.	0
5	0.94	DROP TABLE feedback	Table dropped.	0
6	0.15	CREATE TABLE students( sc_no varchar(20) not null , frame v	Table created.	0
7	0.04	CREATE TABLE module (module_no varchar(10) NOT NULL, topic	Table created.	0
8	0.02	CREATE TABLE activity( activity_code varchar(10) not null,	Table created.	0
9	0.01	create table progress ( status varchar(20) not null, activi	Table created.	0
10	0.02	CREATE TABLE feedback (matric_no number(10) PRIMARY KEY, gen	Table created.	0

Download

row(s) 1 - 10 of 10

10

Statements Processed

10

Successful

0

With Errors

### ***IBMS\_Table.sql***

```
DROP TABLE students;  
DROP TABLE module;  
DROP TABLE activity;  
DROP TABLE progress;  
DROP TABLE feedback;
```

--Table students

```
CREATE TABLE students(  
ic_no varchar2(20) not null ,  
fname varchar(10) not null ,  
lname varchar(10) not null ,  
matric_no number(10) not null ,  
phone_no varchar2(20) not null ,  
mahallah varchar2(10) not null ,  
kulliyyah_code varchar2(10) not null ,  
gender varchar2(5) not null check (gender in('M','F')) ,  
primary key (ic_no,matric_no)) ;
```

desc students;

--Table module

```
CREATE TABLE module  
(module_no varchar2(10) NOT NULL,  
topic varchar2(50) NOT NULL,  
kulliyyah_code varchar2(10) NOT NULL,  
start_date DATE,  
end_date DATE,  
budget NUMBER NOT NULL,  
location varchar2(100) NOT NULL,  
committee varchar2(20) NOT NULL,  
CONSTRAINT module_no_pk PRIMARY KEY(module_no));
```

desc module;

--Table activity

```
CREATE TABLE activity(  
activity_code varchar2(10) not null,  
time varchar2(20) not null,  
date_activity DATE not null,  
activity_name varchar2(100) not null,  
module_no varchar2(10) not null,  
purpose varchar2(100) not null,  
constraint activity_code_pk primary key(activity_code));
```

desc activity;

--Table Progress

create table progress

```
( status varchar2(20) not null,  
activity_code varchar2(10) not null,  
unused_budget number(10),  
Approval varchar2(20) not null );
```


```
desc progress;
```

```
--Table feedback
```

```
CREATE TABLE feedback  
(matric_no number(10) PRIMARY KEY,  
gender varchar2(5) CHECK(gender IN('M','F')),  
kulliyyah_code varchar2(10),  
score number(1) CHECK(score>=1 AND score<=5),  
comments varchar2(100));
```

```
desc feedback;
```

5.0 Data Script



Run Script

You have requested to run the following script. Please confirm your request.

Script Name	IBMS_Data.sql
Created	on 06/11/2023 07:37:18 AM by BADRIMAHAZIR09@GMAIL.COM
Updated	on 06/11/2023 07:37:18 AM by BADRIMAHAZIR09@GMAIL.COM
Number of Statements	50
Script Size in Bytes	5,422

Cancel

Run Now

Script: IBMS\_Data.sql

Status: Complete

Create App

Edit Script

View: 

Detail

Summary

 Rows: 15 

SQL

Number	Elapsed	Statement	Feedback	Rows
1	0.00	Delete from students	10 row(s) deleted.	10
2	0.01	Delete from module	10 row(s) deleted.	10
3	0.00	Delete from activity	10 row(s) deleted.	10
4	0.00	Delete from progress	10 row(s) deleted.	10
5	0.00	Delete from feedback	8 row(s) deleted.	8
6	0.01	INSERT INTO Students values('Q20427-05-6193', 'Badr', 'Mahadi')	1 row(s) inserted.	1
7	0.00	INSERT INTO Students values('Q21055-05-1187', 'Ahwan', 'Iqbal')	1 row(s) inserted.	1
8	0.00	INSERT INTO Students values('Q20304-05-4234', 'Syazwan', 'Mohd')	1 row(s) inserted.	1
9	0.00	INSERT INTO Students values('Q20222-14-2222', 'Aqmar', 'Amirru')	1 row(s) inserted.	1
10	0.00	INSERT INTO Students values('Q20409-02-0989', 'Ali', 'Abu/300')	1 row(s) inserted.	1
11	0.00	INSERT INTO Students values('Q20115-04-2392', 'Serafi', 'Ronald')	1 row(s) inserted.	1
12	0.00	INSERT INTO Students values('Q20202-02-0202', 'Amirah', 'Khua')	1 row(s) inserted.	1
13	0.00	INSERT INTO Students values('Q20226-02-3463', 'Fatimah', 'Rosa')	1 row(s) inserted.	1
14	0.00	INSERT INTO Students values('Q20825-09-4462', 'Seleni', 'Gomez')	1 row(s) inserted.	1
15	0.00	INSERT INTO Students values('Q20105-11-0109', 'Muhammad', 'Maj')	1 row(s) inserted.	1

Download

row(s) 1 - 15 of 60

60

Statements Processed

60

Successful

0

With Errors

badrimahazir09@gmail.com

badrirectory

en

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Oracle APEX 23.1.0

## ***IBMS\_Data.sql***

---

```
Delete from students;  
Delete from module;  
Delete from activity;  
Delete from progress;  
Delete from feedback;
```

```
--Insert value into students
```

```
INSERT INTO Students  
values('020427-03-6193','Badri','Mahazir',1001,'011-12122476','Ali','AIKOL','M');  
INSERT INTO Students  
values('021105-05-1167','Ikhwan','Iqbal',1025,'013-56647798','Bilal','KICT','M');  
INSERT INTO Students  
values('020304-05-1234','Syazwan','Mohd',1003,'017-5647748','Siddiq','KAED','M');  
INSERT INTO Students  
values('020222-14-2222','Asyraf','Amirul',1004,'011-11246412','Faruq','KICT','M');  
INSERT INTO Students  
values('020409-02-0989','Ali','Abu',1005,'019-67534456','Zubair','KOE','M');  
INSERT INTO Students  
values('020113-04-2392','Sarah','Ronaldo',2710,'012-45673241','Asma','KICT','F');  
INSERT INTO Students  
values('020202-02-0202','Aminah','Ikhwan',1185,'011-11251526','Maryam','KAED','F')  
;  
INSERT INTO Students  
values('020226-02-3463','Fatimah','Ibrahim',1018,'014-55667243','Hafsa','AIKOL','F');  
INSERT INTO Students  
values('020823-09-4462','Selena','Gomez',1882,'012-44325677','Aminah','KOED','F');  
INSERT INTO Students  
values('020105-11-0109','Muhammad','Mujahid',1880,'011-12994537','Salah','KICT','M');
```

```
--show table students  
select * from students;
```

```
--Insert value into module
```

```
INSERT INTO module values('M1','Brotherhood and Unity in Islam','KICT',  
to_date('12/25','MM/DD'),to_date('12/26','MM/DD'),'2000','Saidina Hamzah  
Stadium','Sis. Amira');  
INSERT INTO module values('M2','Concept of Tauhid, Ibadah and Khalifah in  
Islam','AIKOL',to_date('12/25','MM/DD'),to_date('12/26','MM/DD'),'2500','IIUM  
Cultural Centre (ICC)','Bro. Hafiz');  
INSERT INTO module values('M3','Leadership in Islam','KAED',  
to_date('12/25','MM/DD'),to_date('12/26','MM/DD'),'2500','Main Auditorium, IIUM',  
'Bro. Izzudin');  
INSERT INTO module values('M4','Dakwah : A Fundamental Islamic Obligation',  
'KOE',to_date('12/25','MM/DD'),to_date('12/26','MM/DD'),'3000','Sultan Haji  
Ahmad Shah Mosque','Sis. Humairah');
```



```

INSERT INTO module values('M5',' Concept of Fiqh', 'KENMS',
to_date('12/25','MM/DD'),to_date('12/26','MM/DD'), '3050', 'Male Sports Centre', 'Bro
Ikhwan');
INSERT INTO module values('M6',' Responsibility', 'HS',
to_date('12/25','MM/DD'),to_date('12/26','MM/DD'), '2050', 'Female Sports Centre',
'Sis Siti');
INSERT INTO module values('M7',' Critical Thinking', 'IRK',
to_date('12/25','MM/DD'),to_date('12/26','MM/DD'), '1000', 'Cafe Siddiq', 'Bro Azim');
INSERT INTO module values('M8',' Creative Thinking', 'ENGIN',
to_date('12/25','MM/DD'),to_date('12/26','MM/DD'), '500', 'Wadi Budi', 'Bro Aiman');
INSERT INTO module values('M9',' Fair and Fun', 'BAR',
to_date('12/25','MM/DD'),to_date('12/26','MM/DD'), '1550', 'ADM LT3 Lvl 4', 'Sis
Mira');
INSERT INTO module values('M10',' How to Handle Stress', 'TASL',
to_date('12/25','MM/DD'),to_date('12/26','MM/DD'), '1750', 'Development Division
IIUM', 'Sis Amyra');

```

```

--Show table module
select * from module;

```

```

--Insert into activity
INSERT INTO activity
VALUES('A1.1','8.00pm-10.00pm',TO_DATE('12-25','MM-DD'),'Usrah','M1','strength
en ukhwah');
INSERT INTO activity
VALUES('A1.2','8.30am-11am',TO_DATE('12-26','MM-DD'),'Gotong-royong','M2','bu
ild teamwork spirit');
INSERT INTO activity
VALUES('A2.1','3.30pm-4.30pm',TO_DATE('12-25','MM-DD'),'Tauhid quiz','M3','test
aqidah knowledge');
INSERT INTO activity
VALUES('A2.2','4.00am-6.00am',TO_DATE('12-26','MM-DD'),'Qiamullail','M4','stren
gthen inner spirit');
INSERT INTO activity
VALUES('A3.1','8.30am-11am',TO_DATE('05-24','MM-DD'),'Leadership in Islam
Talk','M5','to gain knowledge');
INSERT INTO activity
VALUES('A3.2','8.30am-5.00pm',TO_DATE('12-26','MM-DD'),'Leadership
Explorace','M6','Practice leadership skills while doing challenges');
INSERT INTO activity
VALUES('A4.1','8.00pm-10.00pm',TO_DATE('12-25','MM-DD'),'Daie
competition','M7','to produce many preacher');
INSERT INTO activity
VALUES('A4.2','8.30am-11.00am',TO_DATE('12-26','MM-DD'),'Poster
competition','M8','to impart creativity in dakwah');
INSERT INTO activity
VALUES('A4.3','11.30pm-1.00am',TO_DATE('12-26','MM-DD'),'Night
walk','M9','Increase bravery');

```

```
INSERT INTO activity
VALUES('A4.4','11.30pm-1.00am',TO_DATE('12-26','MM-DD'),'Talk night
session','M10','More relaxing');
```

```
--Show table activity
select * from activity;
```

```
--Insert into progress
INSERT INTO progress VALUES('partially completed','A1.1','100','approved');
INSERT INTO progress VALUES('partially completed','A1.2','150','approved');
INSERT INTO progress VALUES('completed','A2.1','75','approved');
INSERT INTO progress VALUES('completed','A2.2','55','approved');
INSERT INTO progress VALUES('completed','A3.1','100','approved');
INSERT INTO progress VALUES('partially completed','A3.2','65','approved');
INSERT INTO progress VALUES('completed','A4.1','105','approved');
INSERT INTO progress VALUES('completed','A4.2','120','approved');
INSERT INTO progress VALUES('dropped','A4.3',null,'not approved');
INSERT INTO progress VALUES('dropped','A4.4',null,'not approved');
```

```
--Show table progress
select * from progress;
```

```
--Insert into feedback
INSERT INTO feedback VALUES('1001','M','AIKOL','5','interesting activities');
```

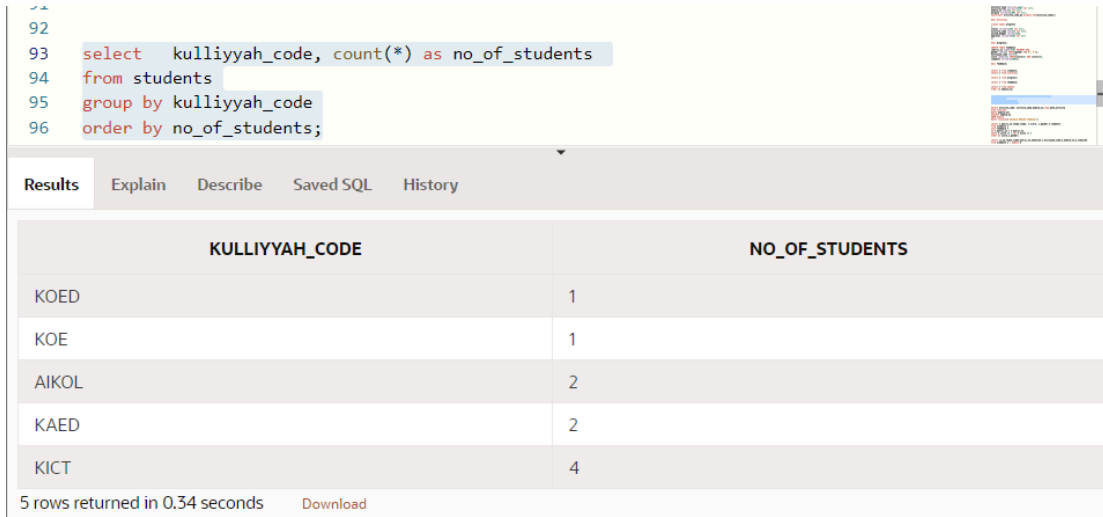
```
INSERT INTO feedback VALUES('1025','M','KICT','5','really excited');
INSERT INTO feedback VALUES('1003','M','KAED','3','ggwp');
INSERT INTO feedback VALUES('1004','M','KICT','3','must be improved');
INSERT INTO feedback VALUES('1005','M','KOE','1','no coment');
INSERT INTO feedback VALUES('2710','F','KICT','2', null);
INSERT INTO feedback VALUES('1185','F','KAED','4','good-looking committee');
INSERT INTO feedback VALUES('1018','F','AIKOL','5','sporting committee');
INSERT INTO feedback VALUES('1882','F','KOED','1','not interesting');
INSERT INTO feedback VALUES('1880','M','KICT','2','not satisfied');
```

```
--Show table feedback
select * from feedback;
```

## 6.0 SQL Queries

1. Find the number of students based on kulliyah attending the Ibadah Camp

```
select kulliyah_code, count(*) as no_of_students
from students
group by kulliyah_code
order by no_of_students;
```



The screenshot shows a SQL query editor with the following query:

```
92
93 select kulliyah_code, count(*) as no_of_students
94 from students
95 group by kulliyah_code
96 order by no_of_students;
```

Below the query editor, the results are displayed in a table with the following columns: KULLIYAH\_CODE and NO\_OF\_STUDENTS.

KULLIYAH_CODE	NO_OF_STUDENTS
KOED	1
KOE	1
AIKOL	2
KAED	2
KICT	4

5 rows returned in 0.34 seconds [Download](#)

2. List all activities that were held at Saidina Hamzah Stadium.

```
Select activity_code, activity_name,module_no,time,date_activity
From activity
Where module_no=
(SELECT module_no
FROM module
Where location='Saidina Hamzah Stadium')
```



The screenshot shows a SQL query editor with the following query:

```
97
98 Select activity_code, activity_name,module_no,time,date_activity
99 From activity
100 Where module_no=
101 (SELECT module_no
102 FROM module
103 Where location='Saidina Hamzah Stadium');
```

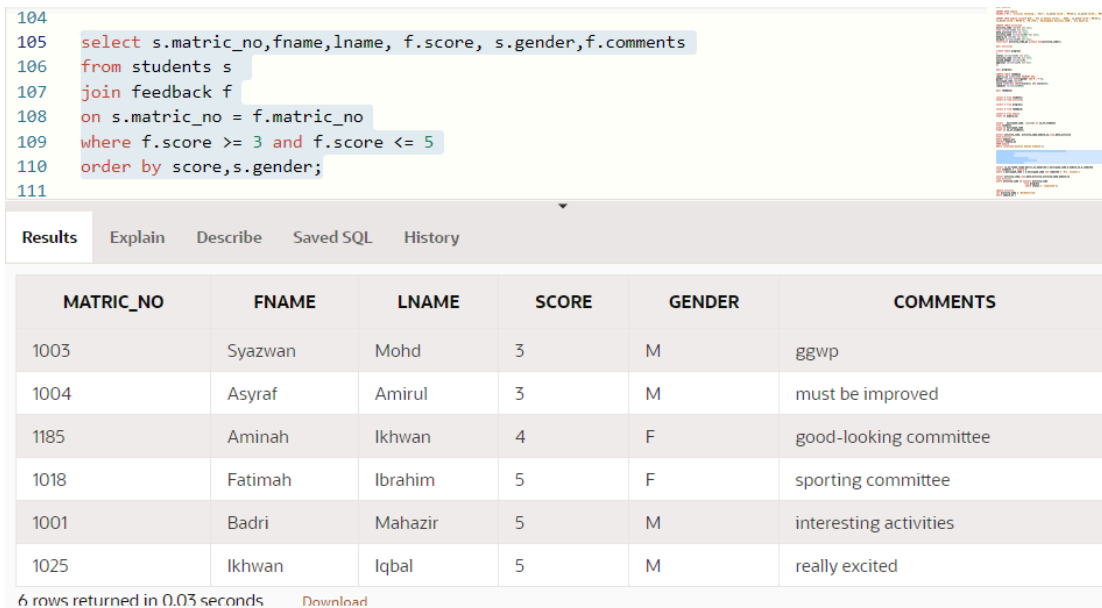
Below the query editor, the results are displayed in a table with the following columns: ACTIVITY\_CODE, ACTIVITY\_NAME, MODULE\_NO, TIME, and DATE\_ACTIVITY.

ACTIVITY_CODE	ACTIVITY_NAME	MODULE_NO	TIME	DATE_ACTIVITY
A1.1	Usrah	M1	8.00pm-10.00pm	12/25/2023

1 rows returned in 0.01 seconds [Download](#)

3. List all the students that give a score from three to five and their comments.

```
select s.matric_no,fname,lname, f.score, s.gender,f.comments
from students s
join feedback f
on s.matric_no = f.matric_no
where f.score >= 3 and f.score <= 5
order by score,s.gender;
```



The screenshot shows a SQL query editor with the following code:

```
104
105 select s.matric_no,fname,lname, f.score, s.gender,f.comments
106 from students s
107 join feedback f
108 on s.matric_no = f.matric_no
109 where f.score >= 3 and f.score <= 5
110 order by score,s.gender;
111
```

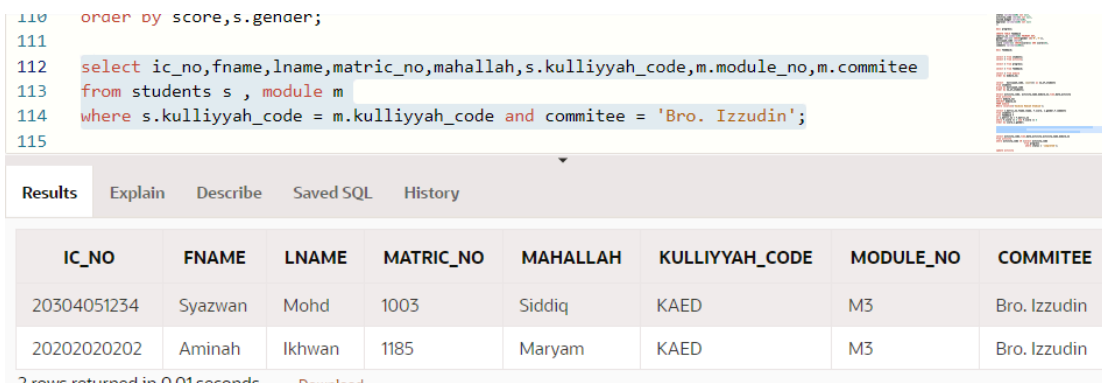
Below the editor, the 'Results' tab is active, displaying a table with 6 rows and 6 columns: MATRIC\_NO, FNAME, LNAME, SCORE, GENDER, and COMMENTS.

MATRIC_NO	FNAME	LNAME	SCORE	GENDER	COMMENTS
1003	Syazwan	Mohd	3	M	ggwp
1004	Asyraf	Amirul	3	M	must be improved
1185	Aminah	Ikhwan	4	F	good-looking committee
1018	Fatimah	Ibrahim	5	F	sporting committee
1001	Badri	Mahazir	5	M	interesting activities
1025	Ikhwan	Iqbal	5	M	really excited

6 rows returned in 0.03 seconds

4. List all students under Bro. izzudin

```
select
ic_no,fname,lname,matric_no,mahallah,s.kulliyyah_code,m.module_no,m.commitee
from students s , module m
where s.kulliyyah_code = m.kulliyyah_code and commitee = 'Bro. Izzudin';
```



The screenshot shows a SQL query editor with the following code:

```
110 order by score,s.gender;
111
112 select ic_no,fname,lname,matric_no,mahallah,s.kulliyyah_code,m.module_no,m.commitee
113 from students s , module m
114 where s.kulliyyah_code = m.kulliyyah_code and commitee = 'Bro. Izzudin';
115
```

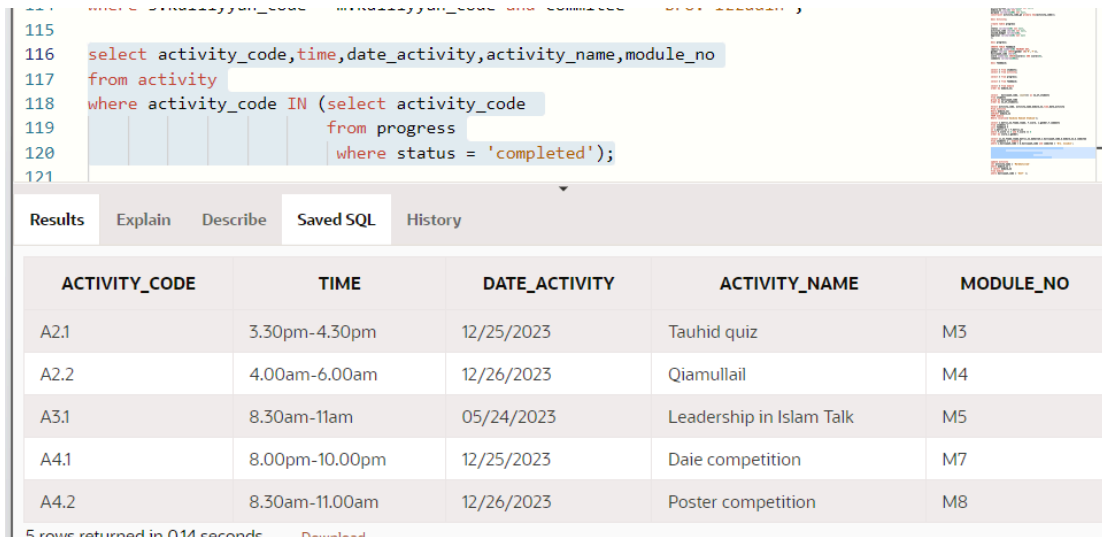
Below the editor, the 'Results' tab is active, displaying a table with 8 columns: IC\_NO, FNAME, LNAME, MATRIC\_NO, MAHALLAH, KULLIYAH\_CODE, MODULE\_NO, and COMMITTEE.

IC_NO	FNAME	LNAME	MATRIC_NO	MAHALLAH	KULLIYAH_CODE	MODULE_NO	COMMITTEE
20304051234	Syazwan	Mohd	1003	Siddiq	KAED	M3	Bro. Izzudin
20202020202	Aminah	Ikhwan	1185	Maryam	KAED	M3	Bro. Izzudin

2 rows returned in 0.01 seconds

5. Find the activities that have been completed.

```
select activity_code,time,date_activity,activity_name,module_no
from activity
where activity_code IN (select activity_code
                        from progress
                        where status = 'completed');
```



The screenshot shows a SQL query execution interface. The query is as follows:

```
115 select activity_code,time,date_activity,activity_name,module_no
116 from activity
117 where activity_code IN (select activity_code
118                        from progress
119                        where status = 'completed');
```

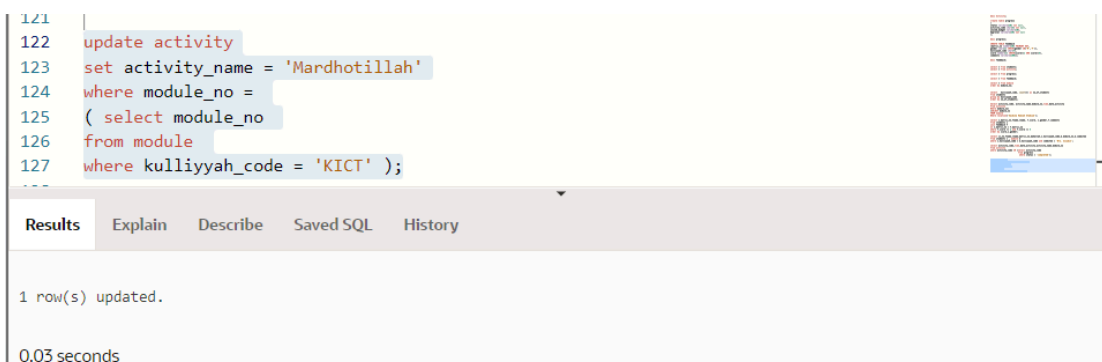
The results are displayed in a table with the following columns: **ACTIVITY\_CODE**, **TIME**, **DATE\_ACTIVITY**, **ACTIVITY\_NAME**, and **MODULE\_NO**.

ACTIVITY_CODE	TIME	DATE_ACTIVITY	ACTIVITY_NAME	MODULE_NO
A2.1	3.30pm-4.30pm	12/25/2023	Tauhid quiz	M3
A2.2	4.00am-6.00am	12/26/2023	Qiamullail	M4
A3.1	8.30am-11am	05/24/2023	Leadership in Islam Talk	M5
A4.1	8.00pm-10.00pm	12/25/2023	Daie competition	M7
A4.2	8.30am-11.00am	12/26/2023	Poster competition	M8

5 rows returned in 0.14 seconds. Download

6. Update the activity for KICT's module.

```
update activity
set activity_name = 'Mardhotillah'
where module_no =
( select module_no
from module
where kulliyyah_code = 'KICT' );
```



The screenshot shows a SQL query execution interface. The query is as follows:

```
121 update activity
122 set activity_name = 'Mardhotillah'
123 where module_no =
124 ( select module_no
125 from module
126 where kulliyyah_code = 'KICT' );
```

The results are displayed as:

1 row(s) updated.

0.03 seconds

## 7.0 Procedure

1. List out the students information

```
-----  
CREATE OR REPLACE PROCEDURE student_info (  
    v_matric_no IN NUMBER  
)  
IS  
    v_stfname students.fname%TYPE;  
    v_stlname students.lname%TYPE;  
    v_stkulliyah students.kulliyah_code%TYPE;  
    v_moduleno module.module_no%TYPE;  
    v_mtopic module.topic%TYPE;  
    v_msdate module.start_date%TYPE;  
    v_medate module.end_date%TYPE;  
BEGIN  
    SELECT s.fname, s.lname, s.kulliyah_code, m.module_no, m.topic, m.start_date,  
m.end_date  
        INTO v_stfname, v_stlname, v_stkulliyah, v_moduleno, v_mtopic, v_msdate,  
v_medate  
        FROM students s  
        JOIN module m ON s.kulliyah_code = m.kulliyah_code  
        WHERE s.matric_no = v_matric_no;  
  
    dbms_output.put_line('Name: ' || v_stfname || ' ' || v_stlname);  
    dbms_output.put_line('Kulliyah: ' || v_stkulliyah);  
    dbms_output.put_line('Module No: ' || v_moduleno);  
    dbms_output.put_line('Topic: ' || v_mtopic);  
    dbms_output.put_line('Start date: ' || v_msdate);  
    dbms_output.put_line('End date: ' || v_medate);  
  
EXCEPTION  
    WHEN OTHERS THEN  
        dbms_output.put_line(SQLERRM);  
END;  
-----  
  
DECLARE  
student_info number;  
BEGIN  
    student_info := :matric number;  
END;
```

Results	Explain	Describe	Saved SQL	History
Name: Fatimah Ibrahim Kulliyah: AIKOL Module No: M2 Topic: Concept of Tauhid, Ibadah and Khalifah in Islam Start date: 12/25/2023 End date: 12/26/2023  Statement processed.				

## 2. Modify Activity name and the purpose of the activity

```
-----
SET SERVEROUTPUT ON
SET VERIFY OFF
```

```
CREATE OR REPLACE PROCEDURE modify_activityname
(v_moduleno IN OUT VARCHAR2,
v_activityname IN OUT VARCHAR2,
v_purpose IN OUT VARCHAR2)
```

```
IS
```

```
BEGIN
  UPDATE activity
  SET activity_name = v_activityname, purpose = v_purpose
  WHERE module_no = v_moduleno;
```

```
EXCEPTION
  WHEN OTHERS THEN
    DBMS_OUTPUT.PUT_LINE(SQLERRM);
```

```
END;
```

```
-----
--Anonymous Block
SET SERVEROUTPUT ON
SET VERIFY OFF
```

```
ACCEPT v_moduleno PROMPT 'Enter the module no: ';
ACCEPT v_activityname PROMPT 'Enter the new activity name: ';
ACCEPT v_purpose PROMPT 'Enter the purpose of activity: ';
```

```
DECLARE
  v_moduleno VARCHAR2(50) := '&v_moduleno';
  v_activityname VARCHAR2(50) := '&v_activityname';
  v_purpose VARCHAR2(50) := '&v_purpose';
```

```
BEGIN
  modify_activityname(v_moduleno, v_activityname, v_purpose);
```

```

SELECT activity_name, purpose
INTO v_activityname , v_purpose
FROM activity
WHERE module_no = v_moduleno;

DBMS_OUTPUT.PUT_LINE('Table activity updated.');
```

DBMS\_OUTPUT.PUT\_LINE('The new activity for '||v\_moduleno||' is '||v\_activityname||'.');

```

DBMS_OUTPUT.PUT_LINE('The purpose of this activity is '|| v_purpose || '.');
END;
```

Procedure MODIFY\_ACTIVITYNAME compiled

Table activity updated.

The new activity for M9 is Tilawah Al-Quran.

The purpose of this activity is to enhance the recitation skill.

PL/SQL procedure successfully completed.

### 3. List out all students that join the Ibadah Camp (Using Cursor)

```

SET SERVEROUTPUT ON
SET VERIFY OFF
```

```

CREATE OR REPLACE PROCEDURE list_students
IS
```

```

    v_matricno students.matric_no%TYPE;
    v_fname students.fname%TYPE;
    v_lname students.lname%TYPE;
```

```

CURSOR students_cursor
IS
```

```

    SELECT matric_no, fname, lname
    FROM students;
```

```

BEGIN
```

```

    OPEN students_cursor;
```

```

    LOOP
```

```

        FETCH students_cursor INTO v_matricno, v_fname, v_lname;
```

```

    EXIT WHEN students_cursor%NOTFOUND;
```

```

    DBMS_OUTPUT.PUT_LINE('Matric Number: '||v_matricno);
```

```

    DBMS_OUTPUT.PUT_LINE('Full Name is '||v_fname||' '||v_lname||'.');
```

```

    DBMS_OUTPUT.PUT_LINE('-----');
```



```
END LOOP;
```

```
CLOSE students_cursor;
```

```
    DBMS_OUTPUT.PUT_LINE('List all students that joined Ibadah Camp  
completed.');
```

```
END;
```

```
-----  
BEGIN
```

```
    list_students;
```

```
END;
```

Procedure LIST\_STUDENTS compiled

Matric Number: 1001

Full Name is Badri Mahazir.

-----

Matric Number: 1025

Full Name is Ikhwan Iqbal.

-----

Matric Number: 1003

Full Name is Syazwan Mohd.

-----

Matric Number: 1004

Full Name is Asyraf Amirul.

-----

Matric Number: 1005

Full Name is Ali Abu.

-----

Matric Number: 2710

Full Name is Sarah Ronaldo.

-----

Matric Number: 1185

Full Name is Aminah Ikhwan.

-----

Matric Number: 1018

Full Name is Fatimah Ibrahim.

-----

Matric Number: 1882

Full Name is Selena Gomez.

-----

Matric Number: 1880

Full Name is Muhammad Mujahid.

-----

List all students that joined Ibadah Camp completed.

PL/SQL procedure successfully completed.

## 8.0 Function

- 1) Create a function that shows the committee that is in charge of certain students. It needs to input the `matric_no` then the output will show the committee who is in charge of those students.

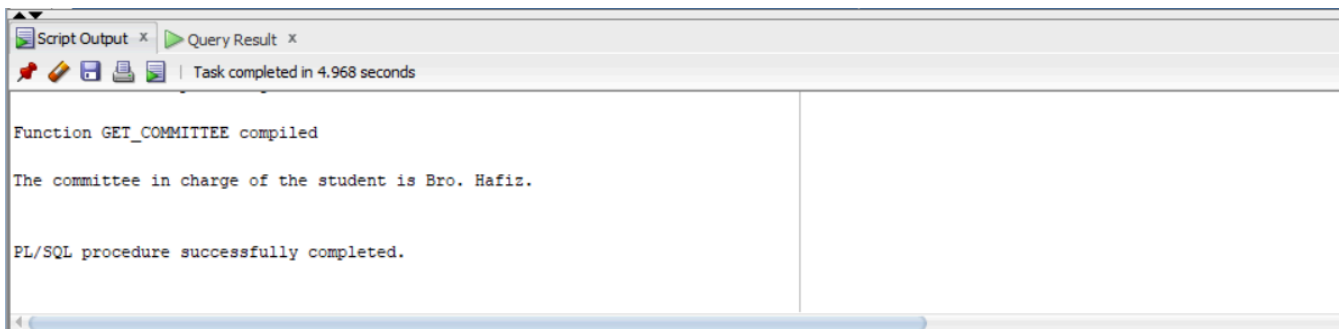
```
SET SERVEROUTPUT ON
SET VERIFY OFF
```

```
CREATE OR REPLACE FUNCTION get_committee(v_matric_no IN NUMBER)
RETURN VARCHAR2
IS
    committee_name VARCHAR2(20);
BEGIN
    SELECT committee
    INTO committee_name
    FROM module
    WHERE kulliyyah_code = (select kulliyyah_code from students where matric_no =
v_matric_no);

    RETURN committee_name;
EXCEPTION
    WHEN NO_DATA_FOUND THEN
        RETURN NULL;
END;

--Anonymous block
ACCEPT v_matric_no PROMPT 'Enter your matric number: '

DECLARE
    student_committee VARCHAR2(20);
BEGIN
    student_committee := get_committee('&v_matric_no');
    DBMS_OUTPUT.PUT_LINE('The committee in charge of the student is ' ||
student_committee || '.');
END;
```



- 2) Create a function that can update the amount of budget if there is a user that wants to sponsor. In anonymous block, the user can enter the kulliyyah code that they want to sponsor and amount of budget that they want to sponsor for the selected kulliyyah.

```
--function
SET SERVEROUTPUT ON
SET VERIFY OFF

CREATE OR REPLACE FUNCTION updatebudget
(v_kulliyyah_code IN varchar2, v_sponsor IN number)
RETURN number
IS
v_newbudget number;
v_oldbudget module.budget%TYPE;
BEGIN
select budget
into v_oldbudget
from module
where kulliyyah_code = v_kulliyyah_code;

update module
set budget = v_oldbudget + v_sponsor
where kulliyyah_code = v_kulliyyah_code;

select budget
into v_newbudget
from module
where kulliyyah_code = v_kulliyyah_code;

RETURN(v_newbudget);
END;

--anonymous block
ACCEPT kulliyyah_code PROMPT 'Enter kulliyyah code do you want to sponsor: '
ACCEPT sponsor PROMPT 'Enter your sponsor amount (RM): '

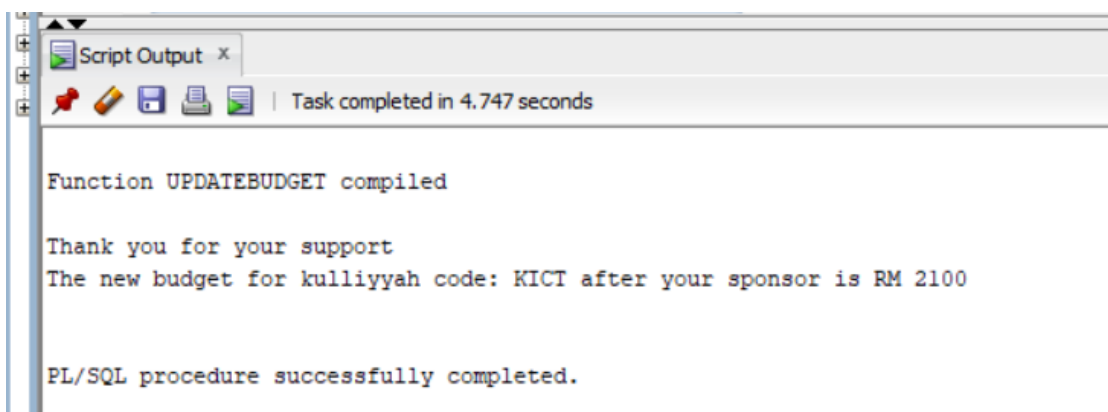
DECLARE
v_kulliyyah_code varchar2(10);
v_sponsor number(20);
v_newbudget number(20);
BEGIN
v_kulliyyah_code := '&kulliyyah_code';
v_sponsor := &sponsor;

v_newbudget := updatebudget(v_kulliyyah_code, v_sponsor);

DBMS_OUTPUT.PUT_LINE('Thank you for your support');
DBMS_OUTPUT.PUT_LINE('The new budget for kulliyyah code: ' ||
v_kulliyyah_code || ' after your sponsor is RM ' || v_newbudget);
```

```
EXCEPTION
  WHEN NO_DATA_FOUND THEN
    DBMS_OUTPUT.PUT_LINE('No data found for Kulliyyah code: '||
v_kulliyyah_code);
  WHEN TOO_MANY_ROWS THEN
    DBMS_OUTPUT.PUT_LINE('Multiple Kulliyyah found for code: '||
v_kulliyyah_code);

END;
```



## 9.0 Website ( using apex oracle app builder )

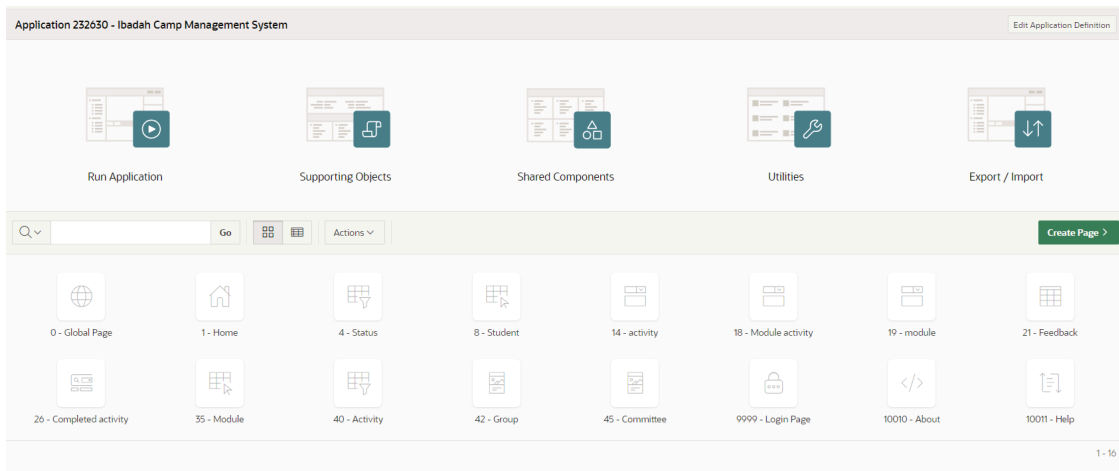
Link for website:

<https://apex.oracle.com/pls/apex/r/badridirectory/ibadah-camp-management-system232630/home?session=7603178577706>

Link for website demonstration:

<https://www.youtube.com/watch?v=wn6YercM9U0>

### 1. Creating web application for Ibadah Camp Management System (IBMS) using app builder in oracle apex. Link to IBMS database.



### 2. Student page. Show all the registered students detail.

Fname	Lname	Phone No	Mahallah	Kuliyah Code	Gender
Badri	Mahazir	011-12122476	Ali	AIKOL	M
Ikhwan	Iqbal	013-56647798	Bilal	KICT	M
Syazwan	Mohd	017-5647748	Siddiq	KAED	M
Asyraf	Aminul	011-11246412	Faruq	KICT	M
Ali	Abu	019-67534456	Zubair	KOE	M
Sarah	Ronaldo	012-45673241	Asma	KICT	F
Aminah	Ikhwan	011-11251526	Maryam	KAED	F
Fatimah	Ibrahim	014-55667243	Hafsa	AIKOL	F
Selena	Gomez	012-44325677	Aminah	KOED	F
Muhammad	Mujahid	011-12994537	Salah	KICT	M

### 3. Module page.

**Ibadah Camp Management System**

## Module

Topic	Kuliyah Code	Start Date	End Date	Budget	Location	Committee
Brotherhood and Unity in Islam	KICT	12/25/2023	12/26/2023	2000	Saidina Hamzah Stadium	Sis. Amira
Concept of Tauhid, Ibadah and Khalifah in Islam	AIKOL	12/25/2023	12/26/2023	2500	IUM Cultural Centre (ICC)	Bro. Hafiz
Leadership in Islam	KAED	12/25/2023	12/26/2023	2500	Main Auditorium, IUM	Bro. Izzudin
Dalawah : A Fundamental Islamic Obligation	KOE	12/25/2023	12/26/2023	3000	Sultan Haji Ahmad Shah Mosque	Sis. Humairah
Concept of Fiqh	KENMS	12/25/2023	12/26/2023	3050	Male Sports Centre	Bro. Ikhwani
Responsibility	HS	12/25/2023	12/26/2023	2050	Female Sports Centre	Sis. Siti
Critical Thinking	IRK	12/25/2023	12/26/2023	1000	Cafe Siddiq	Bro. Azim
Creative Thinking	ENGIN	12/25/2023	12/26/2023	500	Wadi Budi	Bro. Aiman
Fair and Fun	BAR	12/25/2023	12/26/2023	1550	ADM LT3 Lvl 4	Sis. Mira
How to Handle Stress	TASL	12/25/2023	12/26/2023	1750	Development Division IUM	Sis. Amyra

Release 1.0

### 4. Activity page. Can filter the activity listed based on time of the activity held.

**Ibadah Camp Management System**

## Activity

Search...

Order By: Activity Name

**Time**

- ☐ 11:30pm-1:00am (2)
- ☐ 8:00pm-10:00pm (2)
- ☐ 8:30am-11am (2)
- ☐ 3:30pm-4:30pm (1)
- ☐ 4:00am-6:00am (1)
- ☐ 8:30am-11:00am (1)
- ☐ 8:30am-5:00pm (1)

<b>A1 Daie competition</b> to produce many preacher	<b>A2 Gotong-royong</b> build teamwork spirit	<b>A2 Leadership Explore</b> Practice leadership skills while doing challenges
<b>A1 Leadership in Islam Talk</b> to gain knowledge	<b>A3 Night walk</b> Increase bravery	<b>A2 Poster competition</b> to impart creativity in dakwah
<b>A2 Qiamullail</b> strengthen inner spirit	<b>A4 Talk night session</b> More relaxing	<b>A1 Tauhid quiz</b> test aqidah knowledge
<b>A1 Usrah</b> strengthen ukhwah		

Release 1.0

## 5. Completed activity page. List all the activities that have been completed.

Completed activity

Activity Code	Time	Date Activity	Activity Name	Module No
A2.1	3.30pm-4.30pm	12/25/2023	Tauhid quiz	M3
A2.2	4.00am-6.00am	12/26/2023	Qiamullail	M4
A3.1	8.30am-11am	5/24/2023	Leadership in Islam Talk	M5
A4.1	8.00pm-10.00pm	12/25/2023	Daie competition	M7
A4.2	8.30am-11.00am	12/26/2023	Poster competition	M8

## 6. Status page. Show the activity progress, unused budget and status of the activity.

Status

Total Row Count 3

Status: partially completed X

Order By: Approval

A1	approved	100
A2	approved	65
A2	approved	150



## 7. Group page.

The screenshot shows the 'Group' page of the Ibadah Camp Management System. The page displays a list of groups, each with a name, a role, and a count. The groups are arranged in a grid. The left sidebar contains navigation links: Home, Student, Feedback, Completed activity, Module, Activity, Status, Group, and Committee. The top navigation bar shows the system name and a user profile. The bottom status bar shows the temperature, weather, and system time.

Group	Role	Count
Bro. Hafiz	M2	1001
Bro. Hafiz	M2	1018
Bro. Izzudin	M3	1185
Bro. Izzudin	M3	1003
Sis. Amira	M1	2710
Sis. Amira	M1	1880
Sis. Amira	M1	1004
Sis. Amira	M1	1025
Sis. Humairah	M4	1005

## 8. Committee page. List the information about the committee in charge.

The screenshot shows the 'Committee' page of the Ibadah Camp Management System. The page displays a list of committee members, each with a name, a role, and a count. The members are arranged in a list. The left sidebar contains navigation links: Home, Student, Feedback, Completed activity, Module, Activity, Status, Group, and Committee. The top navigation bar shows the system name and a user profile. The bottom status bar shows the temperature, weather, and system time.

Committee	Role	Count
Sis. Humairah	M4	1
Bro. Izzudin	M3	2
Bro. Hafiz	M2	2
Sis. Amira	M1	4

## 9. Feedback page.

**Ibadah Camp Management System**

### Feedback

Gender	Kuliyah Code	Score	Comments
M	AIKOL	5	interesting activities
M	KICT	5	really excited
M	KAED	3	ggwp
M	KICT	3	must be improved
M	KOE	1	no coment
F	KICT	2	
F	KAED	4	good-looking committee
F	AIKOL	5	sporting committee
F	KOED	1	not interesting
M	KICT	2	not satisfied

Release 1.0

App 232630 Page 21 Session Debug Quick Edit Customize

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**IBMS TABLE**

**students**

IC_NO	FNAME	LNAME	MATRIC_NO	PHONE_NO	MAHALLAH	KULIYAH_CODE	GENDER
020427-03-6193	Badri	Mahazir	1001	011-12122476	Ali	AIKOL	M
021105-05-1167	Ikhwan	Iqbal	1025	013-56647798	Bilal	KICT	M
020304-05-1234	Syazwan	Mohd	1003	017-5647748	Siddiq	KAED	M
020222-14-2222	Asyraf	Amirul	1004	011-11246412	Faruq	KICT	M
020409-02-0989	Ali	Abu	1005	019-67534456	Zubair	KOE	M
020113-04-2392	Sarah	Ronaldo	2710	012-45673241	Asma	KICT	F
020202-02-0202	Aminah	Ikhwan	1185	011-11251526	Maryam	KAED	F
020226-02-3463	Fatimah	Ibrahim	1018	014-55667243	Hafsa	AIKOL	F
020823-09-4462	Selena	Gomez	1882	012-44325677	Aminah	KOED	F
020105-11-0109	Muhamma	Mujahid	1880	011-12994537	Salah	KICT	M

**activity**

ACTIVITY_CODE	TIME	DATE_ACTIVITY	ACTIVITY_NAME	MODULE_NO	PURPOSE
A1.1	8.00pm-10.00pm	12/25/2023	Usrah	M1	strengthen ukhwah
A1.2	8.30am-11am	12/26/2023	Gotong-royong	M2	build teamwork spirit
A2.1	3.30pm-4.30pm	12/25/2023	Tauhid quiz	M3	test aqidah knowledge
A2.2	4.00am-6.00am	12/26/2023	Qiamullail	M4	strengthen inner spirit
A3.1	8.30am-11am	05/24/2023	Leadership in Islam Talk	M5	to gain knowledge
A3.2	8.30am-5.00pm	12/26/2023	Leadership Explore	M6	Practice leadership skills while doing challenges
A4.1	8.00pm-10.00pm	12/25/2023	Daie competition	M7	to produce many preacher
A4.2	8.30am-11.00am	12/26/2023	Poster competition	M8	to impart creativity in dakwah
A4.3	11.30pm-1.00am	12/26/2023	Night walk	M9	Increase bravery
A4.4	11.30pm-1.00am	12/26/2023	Talk night session	M10	More relaxing

10 rows returned in 0.02 seconds [Download](#)

**module**

MODULE_NO	TOPIC	KULIYAH_CODE	START_DATE	END_DATE	BUDGET	LOCATION	COMMITTEE
M1	Brotherhood and Unity in Islam	KICT	12/25/2023	12/26/2023	2000	Saidina Hamzah Stadium	Sis. Amira
M2	Concept of Tauhid, Ibadah and Khalifah in Islam	AIKOL	12/25/2023	12/26/2023	2500	IIUM Cultural Centre (ICC)	Bro. Hafiz
M3	Leadership in Islam	KAED	12/25/2023	12/26/2023	2500	Main Auditorium, IIUM	Bro. Izzudin
M4	Dakwah : A Fundamental Islamic Obligation	KOE	12/25/2023	12/26/2023	3000	Sultan Haji Ahmad Shah Mosque	Sis. Humairah
M5	Concept of Fiqh	KENMS	12/25/2023	12/26/2023	3050	Male Sports Centre	Bro Ikhwan
M6	Responsibility	HS	12/25/2023	12/26/2023	2050	Female Sports Centre	Sis Siti
M7	Critical Thinking	IRK	12/25/2023	12/26/2023	1000	Cafe Siddiq	Bro Azim
M8	Creative Thinking	ENGIN	12/25/2023	12/26/2023	500	Wadi Budi	Bro Aiman
M9	Fair and Fun	BAR	12/25/2023	12/26/2023	1550	ADM LT3 Lvl 4	Sis Mira
M10	How to Handle Stress	TASL	12/25/2023	12/26/2023	1750	Development Division IIUM	Sis Amyra

## progress

STATUS	ACTIVITY_CODE	UNUSED_BUDGET	APPROVAL
partially completed	A1.1	100	approved
partially completed	A1.2	150	approved
completed	A2.1	75	approved
completed	A2.2	55	approved
completed	A3.1	100	approved
partially completed	A3.2	65	approved
completed	A4.1	105	approved
completed	A4.2	120	approved
dropped	A4.3		not approved
dropped	A4.4		not approved

## feedback

MATRIC_NO	GENDER	KULLIYAH_CODE	SCORE	COMMENTS
1001	M	AIKOL	5	interesting activities
1025	M	KICT	5	really excited
1003	M	KAED	3	ggwp
1004	M	KICT	3	must be improved
1005	M	KOE	1	no coment
2710	F	KICT	2	
1185	F	KAED	4	good-looking committee
1018	F	AIKOL	5	sporting committee
1882	F	KOED	1	not interesting
1880	M	KICT	2	not satisfied

