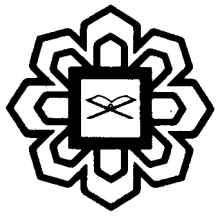

الجامعة الإسلامية العالمية ماليزيا

INTERNATIONAL ISLAMIC UNIVERSITY OF MALAYSIA

Semester 1 2014/2015

INFO 1102 – Database System 1

CPD: Audio-Visual booking database system

CPD is a center located in IIUM to provide facilities for students. It was established in 2006 and was formally known as Center for Educational Technology (CED) and was under the Administration of Institute of Education (INSTEAD). The center conducts seminars, workshops and courses related to teaching and learning, and is responsible for the Basic Technology Methodology Course (BTMC) for IIUM's academic staff. CPD provides audio-visual services to the university community.

Objective: The purpose of audio-visual booking database system is to maintain data that is used and generated to support the booking facilities for users, and officer staff, policy for booking the facilities, information about approve or disapprove of applications. Moreover, the staffs of CPD who manage and control all activities and provide facilities for students IIUM. The staffs in CPD division consist of manager, officer, administrators and their assistances, technicians, photographer and Audio-visual, Front Desk. Manager supervises the staffs. The front desk is to record the registration of booking facilities that the applicants want to book. There are CD players, DVD player, TV25, loudspeaker, LCD and computers. Facilities that make an important part of our DATABASE consist of the facilities required in certain events in IIUM. Eventually, the sufficient information recorded into DATABASE is applications processed in CPD division.

Audio-Visual Booking Database System Policy

1. All applications for booking must be made AT least 5 WORKING DAYS, prior to the function data.

2. Approval must be obtained from the DEAN / DIRECTOR of Kulliyyah / Center / Department.
3. Follow-up with the CPD office ONE DAY after the form Submission.
4. For posted programmers, a NEW FORM must be submitted.
5. CPD reserves the rights to REJECT late applications or application WITHOUT proper approved.

Task:

1. Identify all the entities and attributes. You can add necessary attributes to the identified entities.
2. Specify the business rules based on your scenario and show Relational Schema to show the relationships between the entities and attributes. Schema should be normalized.
3. Create the data dictionary for the above schema.
4. Write a script to create tables based on the Relational Schema.
   Populate each table with records (practical representation of the business scenario). The objective is to ensure that you understand how to read an ER/EER diagram and know how to create tables, and table constraints. Please ensure that your script contains these items:
   - Drop table statements.
   - Create table statements complete with primary key and foreign key declarations (make sure that you give a proper name to each constraint).
   - Insert record statement.
5. Write a script to create view statements in the system.