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| **A picture containing text  Description automatically generated** | Faculty of Computing, Engineering and Science |  |

**Assessment Cover Sheet and Feedback Form** 2022-23

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| Module Code:  IS4S761 | Module Title:  Principles of Computing | | Module Team:  Gaylor Boobyer |
| Assessment Title and Tasks:  Portfolio 1 - Element 2 | | | Assessment No.  1 |
| Date Set:  **14-Oct-22** | | Submission Date:  **02-Dec-22** | Return Date:  **09-Jan-23** |

**IT IS YOUR RESPONSIBILITY TO KEEP RECORDS OF ALL WORK SUBMITTED**

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| **Marking and Assessment** |
| This assignment will be marked out of 100%  This assignment contributes to 25% of the total module marks. |
| **Learning Outcomes to be assessed** (as specified in the validated module descriptor [https://icis.southwales.ac.uk/](https://icis.southwales.ac.uk/studentmodules/13802/studentmodulespecifications) ):  1) To demonstrate a practical understanding of the design of information systems.  2) To design and implement a database system that meets a set of requirements and avoids data redundancy. |
| *Provisional mark only: subject to change and / or confirmation by the Assessment Board* |

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| ***Part A: Record of Submission (to be completed by Student)*** | |
| **Extenuating Circumstances**  If there are any exceptional circumstances that may have affected your ability to undertake or submit this assignment, make sure you contact the Advice Centre on your campus prior to your submission deadline. | |
| **Fit to sit policy**:  The University operates a fit to sit policy whereby you, in submitting or presenting yourself for an assessment, are declaring that you are fit to sit the assessment. You cannot subsequently claim that your performance in this assessment was affected by extenuating factors. | |
| **Plagiarism and Unfair Practice Declaration:**  By submitting this assessment, you declare that it is your own work and that the sources of information and material you have used (including the internet) have been fully identified and properly acknowledged as required[[1]](#footnote-1). Additionally, the work presented has not been submitted for any other assessment. You also understand that the Faculty reserves the right to investigate allegations of plagiarism or unfair practice which, if proven, could result in a fail in this assessment and may affect your progress. | |
| **Details of Submission:**  Note that all work handed in after the submission date and within 5 working days will be capped at 40%[[2]](#footnote-2). No marks will be awarded if the assessment is submitted after the late submission date unless extenuating circumstances are applied for and accepted (Advice Centre to be consulted).  You are responsible for checking the method of submission. This is an INDIVIDUAL coursework. | |
| **You are required to acknowledge that you have read the above statements by writing your student number in the box:** | Student Number(s):  30069196 |

**IT IS YOUR RESPONSIBILITY TO KEEP A RECORD OF ALL WORK SUBMITTED**

DROP TABLE PROPERTYSALE;

CREATE TABLE PROPERTYSALE

(PROPERTYCODE VARCHAR(5),

AREA VARCHAR2(20),

ADDRESS VARCHAR2(40),

SELLERSNAME VARCHAR(20),

BEDROOMS NUMBER,

BATH NUMBER,

RECEPTION NUMBER,

GARAGE VARCHAR(4),

TYPEOFPROPERTY VARCHAR(20),

PROPERTYSTATUS VARCHAR(10),

PRICE NUMBER,

STATEOFPROPERTY VARCHAR(10),

DATEIN DATE,

CONSTRAINT PROPERTYSALE\_PROPERTYCODE\_pk PRIMARY KEY (PROPERTYCODE));

INSERT INTO PROPERTYSALE VALUES

('PY101','BEDDAU','BRYNTEG GREEN BEDDAU PONTYPRIDD', 'HULKY LEWIS', 2, 1, 1, 'NO', 'SEMI-DETACHED', 'FREEHOLD', 189000, 'SOLD', '30-DEC-2022');

INSERT INTO PROPERTYSALE VALUES

('PY108','PONTYCLUNN','BRYNTEG LANE PONTYCLUNN', 'MINA ALFRED', 3, 1, 2, 'YES', 'DETACHED', 'FREEHOLD', 350000, 'UNSOLD', '01-JAN-2023');

INSERT INTO PROPERTYSALE VALUES

('PY120','BEDDAU','GWAUNMISHIN ROAD BEDDAU PONTYPRIDD', 'CLITON MOCKEY', 3, 1, 2, 'NO', 'SEMI-DETACHED', 'LEASEHOLD', 250000, 'UNSOLD', '28-DEC-2022');

INSERT INTO PROPERTYSALE VALUES

('PY145','RHYDYFELIN','PARC Y DYFELIN', 'FINTCH EMMANUEL', 4, 2, 2, 'YES', 'DETACHED', 'LEASEHOLD', 299000, 'SOLD', '09-JAN-2022');

INSERT INTO PROPERTYSALE VALUES

('PY146','LLYS CORWG','LLYS CORWG PONTYPRIDD', 'CAMOE HELKY', 3, 1, 1, 'NO', 'SEMI-DETACHED', 'LEASEHOLD', 275000, 'SOLD', 'O2-FEB-2022');

INSERT INTO PROPERTYSALE VALUES

('PY167','SYCAMORE','SYCAMORE PONTYPRIDD', 'HASSINI WALIHD', 3, 1, 2, 'NO', 'TERRACED', 'LEASEHOLD', 180000, 'SOLD', '04-JAN-2022');

INSERT INTO PROPERTYSALE VALUES

('PY170','LLAINTWIT ROAD','LLAINTWIT ROAD PONTYPRIDD', 'ANGELICA MARCUS', 2, 2, 2, 'NO', 'TERRACED', 'FREEHOLD', 350000, 'SOLD', '07-JUL-2022');

INSERT INTO PROPERTYSALE VALUES

('PY190','GRAIG','GRAIG STREET PONTYPRIDD', 'BENNIESE HOLSTER', 2, 1, 1, 'NO', 'LINKED', 'FREEHOLD', 25000, 'SOLD', '09-NOV-2022');

INSERT INTO PROPERTYSALE VALUES

('PY210','TREFOREST','PARK STREET PONTYPRIDD', 'HAKEEM ASAKE', 4, 1, 2, 'NO', 'TERRACED', 'LEASEHOLD', 140000, 'UNSOLD', '27-0CT-2022');

INSERT INTO PROPERTYSALE VALUES

('PY219','TREFOREST','BIRCHLEY CLOSEPONTYPRIDD', 'MORGAN HACTODIX', 2, 1, 1, 'YES', 'SEMI-DETACHED', 'LEASEHOLD', 165000, 'SOLD', '19-MAY-2022');

DROP TABLE STAFFMEMBER;

CREATE TABLE STAFFMEMBER

(STAFFCODE VARCHAR(5) PRIMARY KEY NOT NULL,

BUYERCODE VARCHAR2(10),

APPOINTMENTCODE VARCHAR(10),

PROPERTYSTATUS VARCHAR(15),

STAFFNAME VARCHAR(20),

BRANCH VARCHAR(20),

PROPERTYCODE VARCHAR(10));

INSERT INTO STAFFMEMBER VALUES

('SF020', 'BR010','AP407', 'LEASEHOLD', 'EDWARD POTAL', 'TREFOREST', 'PY145');

INSERT INTO STAFFMEMBER VALUES

('SF130', 'BR006','AP408', 'FREEHOLD', 'CHARIS BEATOP', 'PONTYCLUNN', 'PY108');

INSERT INTO STAFFMEMBER VALUES

('SF163', 'BR001','AP409', 'LEASEHOLD', 'LOLA PATRIC', 'RHONDA', 'PY167');

INSERT INTO STAFFMEMBER VALUES

('SF074', 'BR004','AP410', 'LEASEHOLD', 'WAZZY NEDU', 'BEDDAU', 'PY219');

INSERT INTO STAFFMEMBER VALUES

('SF039', 'BR002','AP411', 'FREEHOLD', 'FISHER SLIM', 'TYNANT', 'PY190');

INSERT INTO STAFFMEMBER VALUES

('SF045', 'BR009','AP412', 'LEASEHOLD', 'ROMAN PONITAIL', 'TONNYPANDY', 'PY146');

INSERT INTO STAFFMEMBER VALUES

('SF408', 'BR008','AP413', 'LEASEHOLD', 'EVE KWEKU', 'TREFOREST', 'PY120');

INSERT INTO STAFFMEMBER VALUES

('SF806', 'BR003','AP414', 'FREEHOLD', 'PETER FLORISH', 'TAFF WELLS', 'PY101');

INSERT INTO STAFFMEMBER VALUES

('SF190', 'BR005','AP415', 'FREEEHOLD', 'KEMI BALOGUN', 'PONTYCLUNN', 'PY170');

INSERT INTO STAFFMEMBER VALUES

('SF940', 'BR007','AP416', 'LEASEHOLD', 'FIFY CRWN', 'TAFF WELLS', 'PY170');

DROP TABLE POTENTIALBUYER;

CREATE TABLE POTENTIALBUYER

(BUYERCODE VARCHAR(5) PRIMARY KEY NOT NULL,

BUYERNAME VARCHAR2(15),

BUYERADDRESS VARCHAR(50),

AREA VARCHAR(30),

BED NUMBER,

BATH NUMBER,

RECEPTION NUMBER,

GARAGE VARCHAR (20),

MAXIMUMPRICE NUMBER,

PROPERTYCODE VARCHAR(10),

APPOINTMENTCODE VARCHAR(10));

INSERT INTO POTENTIALBUYER VALUES

('BROO1', 'GAIL MARCUS','SWANSEA', 'SYCAMORE', 3, 1, 2, 'NO', 190000, 'PY167', 'AP409');

INSERT INTO POTENTIALBUYER VALUES

('BROO2', 'KEN BOBBY','BRISTOL', 'GRIAG', 2, 1, 1, 'NO', 30000, 'PY190', 'AP411');

INSERT INTO POTENTIALBUYER VALUES

('BROO3', 'ANDREW MARACH','NEWPORT', 'BEDDAU', 2, 1, 2, 'NO', 200000, 'PY101', 'AP414');

INSERT INTO POTENTIALBUYER VALUES

('BROO4', 'HAILEY MARCUS','LLANDAF', 'TREFOREST', 2, 1, 1, 'YES', 167000, 'PY219', 'AP410');

INSERT INTO POTENTIALBUYER VALUES

('BROO5', 'MIRA POKS','BRISTOL', 'LLAINTWIT ROAD', 4, 2, 2, 'NO', 360000, 'PY170', 'AP415');

INSERT INTO POTENTIALBUYER VALUES

('BROO6', 'JOHNY CLARKS','TREFOREST ESTATE', 'PONTYCLUNN', 3, 1, 2, 'YES', 350000, 'PY108', 'AP408');

INSERT INTO POTENTIALBUYER VALUES

('BROO7', 'JACKSON HALL','ABADERE', 'TREFOREST', 4, 1, 2, 'NO', 148000, 'PY210', 'AP416');

INSERT INTO POTENTIALBUYER VALUES

('BROO8', 'MOLLY MUDRICH','BRIDGEND', 'BEDDAU', 3, 1, 2, 'NO', 253000, 'PY120', 'AP413');

INSERT INTO POTENTIALBUYER VALUES

('BROO9', 'CHARLES HENKKY','CATHAYS', 'LLYS CORWG', 3, 1, 1, 'NO', 280000, 'PY146', 'AP412');

INSERT INTO POTENTIALBUYER VALUES

('BRO10', 'WILLY BLENFORD','PONTYPRIDD', 'RHYDYFELIN', 4, 2, 2, 'YES', 300000, 'PY145', 'AP407');

CREATE TABLE SELLER

(SELLERNAME VARCHAR(20) PRIMARY KEY NOT NULL,

CONTACT NUMBER,

SELLERCODE VARCHAR(4));

INSERT INTO SELLER VALUES

('HULKY LEWIS', 789324786, 'SY01');

INSERT INTO SELLER VALUES

('MINA ALFRED', 7345635678, 'SY02');

INSERT INTO SELLER VALUES

('CLITON MOCKEY', 725927123, 'SY03');

INSERT INTO SELLER VALUES

('FINTCH EMMANUEL', 7098765423, 'SY04');

INSERT INTO SELLER VALUES

('CAMOE HELKY', 7778961422, 'SY05');

INSERT INTO SELLER VALUES

('HASSINI WALIHD', 7987653176, 'SY06');

INSERT INTO SELLER VALUES

('ANGELICA MARCUS', 700876432, 'SY07');

INSERT INTO SELLER VALUES

('BENIESE HOLSTER', 765321566, 'SY08');

INSERT INTO SELLER VALUES

('HAKEEM ASAKE', 789374786, 'SY09');

INSERT INTO SELLER VALUES

('MORGAN HACTODIX', 709876123, 'SY10');

CREATE TABLE APPOINTMENT

(APPOINTMENTCODE VARCHAR(20) PRIMARY KEY NOT NULL,

BUYERNAME VARCHAR(20),

SELLERNAME VARCHAR(50),

PROPERTYCODE VARCHAR(10),

STAFFNAME VARCHAR(20),

DATEOFAPPOINTMENT DATE);

INSERT INTO APPOINTMENT VALUES

('AP407', 'WILLY BLENFORD', 'FINTCH EMMANUEL', 'PY145', 'EDWARD POTAL', '09-FEB-2022');

INSERT INTO APPOINTMENT VALUES

('AP408', 'JOHNY CLARKS', 'MINA ALFRED', 'PY108', 'CHARIS BEATOP', '31-DEC-2022');

INSERT INTO APPOINTMENT VALUES

('AP409', 'GAIL MARCUS', 'HASSINI WALIHD', 'PY167', 'LOLA PATRIC', '09-FEB-2022');

INSERT INTO APPOINTMENT VALUES

('AP410', 'HAILEY CARLOS', 'MORGAN HACTODIX', 'PY219', 'WAZZY NEDU', '26-JUN-2022');

INSERT INTO APPOINTMENT VALUES

('AP411', 'KEN BOBBY', 'BENNIESE HOLSTER', 'PY190', 'FISHER SLIM', '12-DEC-2022');

INSERT INTO APPOINTMENT VALUES

('AP412', 'CHARLES HENKEY', 'CAMOE HELKY', 'PY146', 'ROMAN PONITAIL', '20-FEB-2022');

INSERT INTO APPOINTMENT VALUES

('AP413', 'MOLLY MUDRICH', 'CLITON MOCKEY', 'PY120', 'EVE KWEKU', '07-JAN-2023');

INSERT INTO APPOINTMENT VALUES

('AP414', 'ANDREW MARACH', 'HULKY LEWIS', 'PY101', 'PETER FLORISH', '08-JAN-2022');

INSERT INTO APPOINTMENT VALUES

('AP415', 'MIRA POKS', 'ANGELICA MARCUS', 'PY170', 'KEMI BALOGUN', '10-OCT-2022');

INSERT INTO APPOINTMENT VALUES

('AP416', 'JACKSON HALL', 'HAKEEM ASAKE', 'PY210', 'FIFY CROWN', '01-NOV-2022')

A)

SELECT \* FROM PROPERTYSALE



B) SELECT \* FROM POTENTIALBUYER



C) SELECT \* FROM STAFFMEMBER



D) SELECT \* FROM SELLER



E) SELECT \* FROM APPOINTMENT



QUERY C1 : SELECT \* FROM PROPERTYSALE WHERE AREA = 'BEDDAU';



C2) SELECT \* FROM PROPERTYSALE WHERE TYPEOFPROPERTY = 'SEMI-DETACHED' AND STATEOFPROPERTY = 'SOLD';



C3) SELECT TYPEOFPROPERTY, COUNT(TYPEOFPROPERTY)

from PROPERTYSALE

WHERE STATEOFPROPERTY = 'SOLD'

GROUP BY TYPEOFPROPERTY;



C4) SELECT MAX(PRICE) AS MOST\_EXPENSIVE, MIN(PRICE) AS LEAST\_EXPENSIVE

FROM PROPERTYSALE

WHERE STATEOFPROPERTY='UNSOLD';



C5) SELECT \* FROM PROPERTYSALE

WHERE BEDROOMS >= 3 AND BATH >= 1 AND GARAGE = 'YES';



C6) SELECT \* FROM PROPERTYSALE

WHERE DATEIN BETWEEN '31-DEC-2021' AND '01-MAR-2022';



C7) SELECT TYPEOFPROPERTY, MAX(price) AS MOST\_EXPENSIVE, MIN(price) AS LEAST\_EXPENSIVE

FROM PROPERTYSALE

GROUP BY TYPEOFPROPERTY;



C8) SELECT u.appointmentcode, s.staffname AS supervisor\_name, u.propertycode, u.dateofappointment

FROM appointment u, staffmember s

WHERE s.staffcode = 'SF020';



C9) SELECT u.apptno, pb.buyername AS buyername, u.propertycode, ps.address, s.sellername, u.dateofappointment

FROM viewingappointment u, potentialbuyer pb, propertysale ps, seller s

WHERE u.buyercode = pb.buyercode AND u.propertycode = ps.propertycode;

1. University Academic Integrity Regulations [↑](#footnote-ref-1)
2. Information on exclusions to this rule is availablefrom Campus Advice Shops [↑](#footnote-ref-2)