NAME: IGEBU CHRISTOPHER JNR

STUDENT NO: 67620728

MODULE CODE: ICT3722

ASSIGNMENT 4

QUESTION 1

1.1

The following SQL statement will create the "INVOICE TABLE"

```
CREATE TABLE invoices(
```

```
invoice_id NUMBER(5),
vendor_id NUMBER(5),
invoice_number VARCHAR2(30),
invoice_date DATE,
invoice_total NUMBER(9,2),
payment_total NUMBER(9,2) DEFAULT 0,
credit_total NUMBER(9,2) DEFAULT 0,
terms_id NUMBER,
invoice_due_date DATE,
payment_date DATE,
CONSTRAINT INVOICES_PK PRIMARY KEY(INVOICE_ID)
);
```

1.2

The following SQL statement will create the "VENDORS TABLE"

```
CREATE TABLE vendors (
```

```
vendor_id NUMBER(4) NOT NULL,
vendor_name VARCHAR(50) NOT NULL,
vendor_phone VARCHAR(15) NOT NULL,
vendor_areacode NUMBER(6) NOT NULL,
vendor_state VARCHAR(4) NOT NULL,
CONSTRAINT VENDOR_PK Primary Key (vendor_id)
);
```

1.3

INSERT INTO invoices VALUES (1,34,'QP58872',(to_date('25-FEB-14','YY-MON-DD')),116.54,116.54,0,4,NULL, NULL);

INSERT INTO invoices VALUES (2,34,'Q545443',(to_date('14-MAR-14','YY-MON-DD')),1083.58,1083.58,0,4,NULL, NULL);

INSERT INTO invoices VALUES (3,110,'P-0608',(to_date('11-APRIL-14','YY-MON-DD')),20551.18,0,1200,5,NULL, NULL);

INSERT INTO invoices VALUES (4,110,'P-0259',(to_date('16-APRIL-14','YY-MON-DD')),26881.4,26881.4,0,3,NULL, NULL);

INSERT INTO invoices VALUES (5,81,'MABO1489',(to_date('16-APRIL-14','YY-MON-DD')),936.93,936.93,0,3,NULL, NULL);

INSERT INTO invoices VALUES (6,122,'989319-497',(to_date('17-APRIL-14','YY-MON-DD')),2312.2,0,0,4,NULL, NULL);

INSERT INTO invoices VALUES (7,82,'C73-24',(to_date('17-APRIL-14','YY-MON-DD')),600,600,0,2,NULL, NULL);

INSERT INTO invoices VALUES (8,122, '989319-487',(to_date('18-APRIL-14','YY-MON-DD')),1927.54,0,0,4,NULL, NULL);

INSERT INTO invoices VALUES (9,122, '989319-477',(to_date('19-APRIL-14','YY-MON-DD')),2184.11,2184.11,0,4,NULL, NULL);

INSERT INTO invoices VALUES (10,122, '989319-467',(to_date('24-APRIL-14','YY-MON-DD')),2318.03,2318.03,0,4,NULL, NULL);

INSERT INTO invoices VALUES (11,122, '989319-457',(to_date('24-APRIL-14','YY-MON-DD')),3813.33,3813.33,0,3,NULL, NULL);

INSERT INTO invoices VALUES (12,122, '989319-447',(to_date('24-APRIL-14','YY-MON-DD')),3689.99,3689.99,0,3,NULL, NULL);

INSERT INTO invoices VALUES (13,122, '989319-437',(to_date('24-APRIL-14','YY-MON-DD')),2765.36,2765.36,0,2,NULL, NULL);

INSERT INTO invoices VALUES (14,122, '989319-427',(to_date('25-APRIL-14','YY-MON-DD')),2115.81,2115.81,0,1,NULL, NULL);

INSERT INTO invoices VALUES (15,121, '97/553B',(to_date('26-APRIL-14','YY-MON-DD')),313.55,0,0,4,NULL, NULL);

QUESTION 2

2.1

SQL QUERY

SELECT INVOICE_NUMBER, INVOICE_DATE, INVOICE_TOTAL, PAYMENT_TOTAL, CREDIT_TOTAL, (INVOICE_TOTAL - (PAYMENT_TOTAL + CREDIT_TOTAL)) AS BALANCE_DUE

FROM INVOICES

ORDER BY INVOICE DATE;

QUESTION 3

SQL QUERY

SELECT VENDOR_NAME,INVOICE_NUMBER,INVOICE_DATE,INVOICE_TOTAL

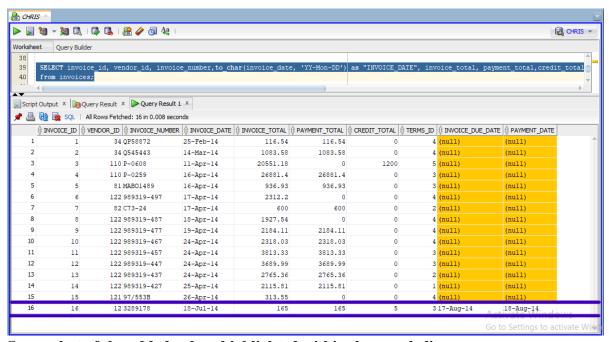
FROM VENDORS vendor1,INVOICES invoice1 WHERE vendor1.VENDOR_ID=invoice1.VENDOR_ID;

QUESTION 4

Using the INSERT statement:

SQL QUERY

INSERT INTO invoices VALUES (16,12, '3289178','18-JUL-14',165,165,5,3,'17-AUG-14','18-AUG-14');



Screenshot of the added values highlighted within the purple lines

QUESTION 5

Using the UPDATE statement

SQL QUERY

UPDATE invoices

SET CREDIT_TOTAL = '35.99'

WHERE INVOICE_NUMBER = 'QP58872';

QUESTION 6

SQL QUERY

DELETE FROM INVOICES

WHERE PAYMENT_TOTAL - INVOICE_TOTAL - CREDIT_TOTAL = 0;

QUESTION 7

SQL QUERY

CREATE VIEW VENDOR_VIEW

AS SELECT VENDOR_NAME, VENDOR_STATE, VENDOR_PHONE

FROM VENDORS;

QUESTION 8

SQL QUERY

SELECT I.VENDOR_ID, I.INVOICE_TOTAL,

(SELECT AVG(INVOICE_TOTAL) FROM Invoices

WHERE VENDOR_ID = I.VENDOR_ID GROUP BY VENDOR_ID) AS "AVG_INVOICE_TOTAL(VENDOR_ID)"

FROM INVOICES I

ORDER BY VENDOR_ID;

