

COVER SHEET

CIS2360: Relational Databases and Web Integration (Dr David Wilson)

COURSEWORK

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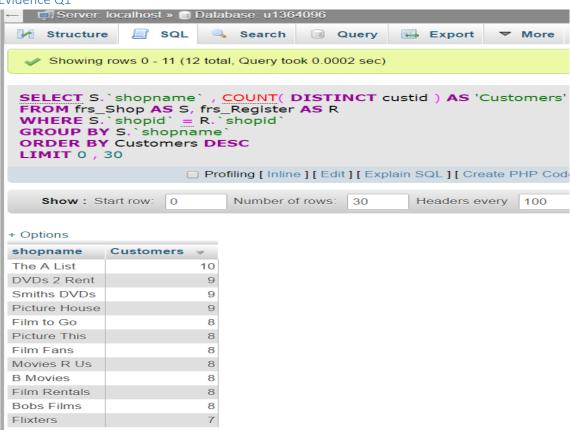
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1) Display the name of each shop and the total number of customers per shop; order by customers from highest to lowest.

```
SELECT
S.`shopname`,
COUNT(DISTINCT custid) AS 'Customers'
FROM
frs_Shop AS S,
frs_Register AS R
WHERE
S.`shopid` = R.`shopid`
GROUP BY
S.`shopname`
ORDER BY
```

Evidence Q1

Customers DESC;

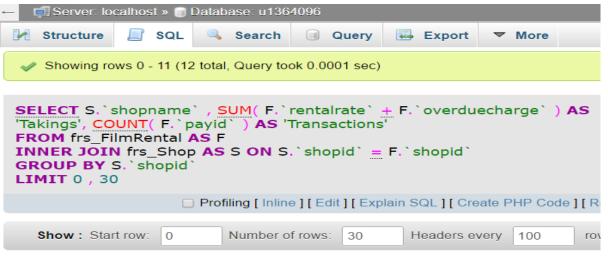


2) Display the name of each shop, the total money earned per shop (AS Takings) and the total number of films rented per shop (AS Transactions).

```
SELECT
```

```
S.`shopname`,
SUM(F.`rentalrate` + F.`overduecharge`) AS 'Takings',
COUNT(F.`payid`) AS 'Transactions'
FROM
  frs_FilmRental AS F
INNER JOIN
  frs_Shop AS S ON S.`shopid` = F.`shopid`
GROUP BY
S.`shopid`;
```

Evidence Q2



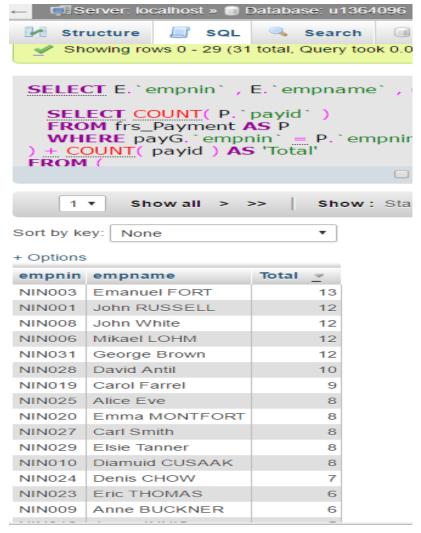
+ Options

shopname	Takings	Transactions
Smiths DVDs	95.76	24
Bobs Films	38.91	9
Film Fans	190.54	46
Movies R Us	43.89	11
DVDs 2 Rent	74.82	18
Film Rentals	107.73	27
Film to Go	90.78	22
B Movies	215.46	54
The A List	65.84	16
Picture House	211.47	53
Picture This	51.87	13
Flixters	88.79	21

3) Display the total number of transactions attributed to all employees, giving employee number and employee name (this includes payments and returns).

```
SELECT
  E. `empnin`,
  E. `empname`,
  (SELECT COUNT(P. `payid`)
      FROM frs Payment AS P
      WHERE
        payG.`empnin` = P.`empnin`)
      + COUNT (payid) AS 'Total'
FROM
  (SELECT
     F. `empnin`,
     F. `payid`,
     F. `rstatusid`
        FROM frs_FilmRental AS F
        GROUP BY
          F. `payid`) AS payG
NATURAL JOIN
  frs Employee AS E
WHERE
  rstatusid != 3
GROUP BY
  E. `empnin`
ORDER BY
  Total DESC;
```

Evidence Q3



```
SELECT E. 'empnin', E. 'empname', (

SELECT COUNT( P. 'payid')
FROM frs_Payment AS P
WHERE payG. 'empnin' = P. 'empnin'
) + COUNT( payid ) AS 'Total'
FROM (

SELECT F. 'empnin', F. 'payid', F. 'rstatusid'
FROM frs_FilmRental AS F
GROUP BY F. 'payid'
) AS payG
NATURAL JOIN frs_Employee AS E
WHERE rstatusid !=3
GROUP BY E. 'empnin'
```

ORDER BY Total DESC

4) Write a function to get the payment sales figures from any given shop The shop should be searched for by name.

```
Delimiter //
CREATE FUNCTION getSales(shop TEXT)
     RETURNS DECIMAL (5,2)
     BEGIN
     DECLARE sF DECIMAL(5,2);
     SELECT
       SUM(F.`rentalrate`) INTO sF
       FROM
          frs Shop AS S,
          frs FilmRental AS F
     WHERE
       S.`shopid` = F.`shopid`
       AND S. `shopname` = shop;
  RETURN
     sF;
END //
DELIMITER ;
Evidence Q4
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Server: localhost » □ Database: u1364096

 Showing rows 0 - 0 (1 total, Query took 0.0006)
  SELECT getSales(
    'Flixters
  ) AS 'Flixters Sales'
     Show: Start row: 0
                                  Number of rows:
+ Options
Flixters Sales
         83.79
← Server: localhost » □ Database: u1364096
 M Structure SQL Search Query Export Import

✓ Your SQL query has been executed successfully (Query took 0.0004 sec)

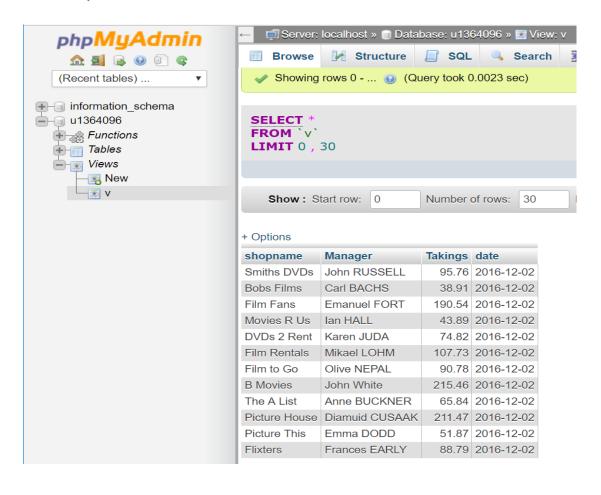
 CREATE FUNCTION getSales(
 RETURNS DECIMAL( 5, 2 ) BEGIN DECLARE SF DECIMAL( 5, 2 );
 SELECT SUM( F.`rentalrate` )
INTO sF
 FROM frs Shon AS S. frs FilmRental AS F
WHERE S.`shopid` = F.`shopid`
AND S.`shopname` = shop;
RETURN sF;
```

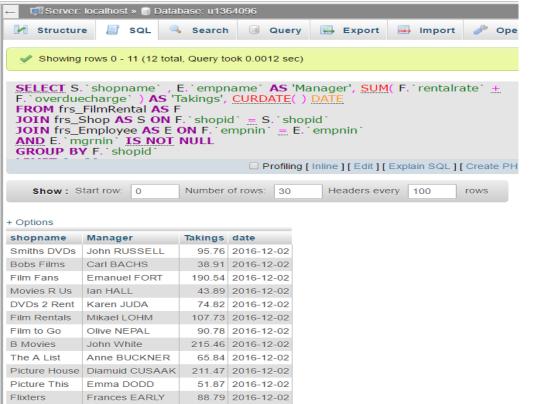
END

5. Create a view table of sales figures for each individual shop (displaying the shop by name), the date the sales figures were created and the manager of the shop (displaying the shop by name).

```
CREATE VIEW v AS
SELECT
       S.`shopname`,
       E. `empname` AS 'Manager',
       SUM(F.`rentalrate` + F.`overduecharge`) AS 'Takings',
       CURDATE() date
    FROM frs FilmRental AS F
    JOIN
        frs_Shop AS S
    ON
        F.`shopid` = S.`shopid`
    JOIN
        frs Employee AS E
    ON
        F. `empnin` = E. `empnin` AND E. `mgrnin` IS NOT NULL
    GROUP BY
        F.`shopid`;
```

Evidence Q5

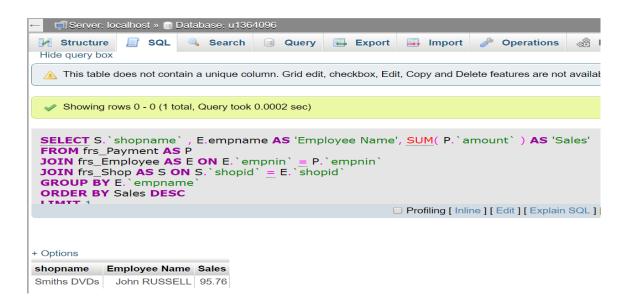




6) Write a query to find the top sales person in the company. Display the employee name, the shop where he/she is employed and the value of sales. Do not include overdue charges.

```
SELECT
  S. `shopname`,
  E.empname AS 'Employee Name',
  SUM(P. `amount`) AS 'Sales'
  FROM
    frs Payment AS P
JOIN
  frs Employee AS E
    ON E. empnin = P. empnin
JOIN
  frs Shop AS S
    ON S. shopid = E. shopid
GROUP BY
  E. `empname`
ORDER BY
  Sales DESC
LIMIT 1;
```

Evidence Q6



7) Display the name of the top sales person within each shop. Display the employee name, the shop where he/she is employed and the value of sales for that person.

```
SELECT
  S.`shopname`,
  E. `empname`,
  SUM(P.`amount`) AS 'Sales'
  FROM
    frs Payment AS P
JOIN
  frs_Employee AS E
    ON E. `empnin` = P. `empnin`
JOIN
  frs Shop AS S
    ON S. `shopid` = E. `shopid`
GROUP BY
  E. `empname`
ORDER BY
  Sales DESC;
Evidence Q7
```

