

## Lab 4 Task 3 sample results

- a. Present a report listing the names and student numbers of students with the details of their contracts, order by student surname.

```
SELECT s_no, f_name, l_name, contractNo, contractDate, duration, room_placeNo, dateIn, dateOut
FROM student, contract
WHERE student.s_no = contract.Student_s_no
ORDER BY s_no;
```

s_no	f_name	l_name	contractNo	contractDate	duration	room_placeNo	dateIn	dateOut
S287	San	Zhang	102653	2018-09-01	3	C301	2018-09-15	2019-08-01
S287	San	Zhang	101089	2017-09-01	3	S310	2017-09-05	NULL
S328	Anne	Martin	102796	2018-09-03	3	H101	2018-09-10	2019-08-01
S328	Anne	Martin	101176	2018-09-04	3	R106	2017-09-10	2018-08-01
S590	John	Doe	103523	2018-09-02	2	G305	2018-09-10	NULL
S590	John	Doe	101468	2018-09-06	1	E203	2017-09-15	2018-01-15
S902	Eduardo	Saverin	102863	2018-09-05	2	W603	2018-09-15	2019-06-01

7 rows in set (0.01 sec)

- b. Display the details of contracts that include the Summer Semester.

```
SELECT * from contract
WHERE duration = 3;
```

contractNo	contractDate	duration	Student_s_no	Room_placeNo	dateIn	dateOut
101089	2017-09-01	3	S287	S310	2017-09-05	NULL
101176	2018-09-04	3	S328	R106	2017-09-10	2018-08-01
102653	2018-09-01	3	S287	C301	2018-09-15	2019-08-01
102796	2018-09-03	3	S328	H101	2018-09-10	2019-08-01

4 rows in set (0.00 sec)

- c. Display the total rent paid by John Doe.

```
SELECT sum(paymentDue)
FROM student, invoice
WHERE student.s_no = invoice.Student_s_no
AND f_name = "John"
AND l_name = "Doe"
AND paymentDate IS NOT NULL;
```

sum(paymentDue)
1000

1 row in set (0.01 sec)

- d. Display the details of flat inspections where the property was found to be in an unsatisfactory condition.

```
SELECT * from inspection
WHERE satisfaction = "unsatisfactory";
```

```

+-----+-----+-----+-----+-----+
| Staff_staffNo | Flat_flatNo | date       | satisfaction | comments |
+-----+-----+-----+-----+-----+
| 105           | W5          | 2019-02-02 | Unsatisfactory | Very messy and dirty kitchen |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

```

- e. Present a report of the names and student numbers of students with their room number and place number in Hall Gryffindor.

```

SELECT s_no, f_name, l_name, roomNo, placeNo, Hall_hallName
FROM student, room, contract
WHERE student.s_no = contract.Student_s_no
AND room.placeNo = contract.Room_placeNo
AND room.Hall_hallName = "Gryffindor";

```

```

+-----+-----+-----+-----+-----+
| s_no | f_name | l_name | roomNo | placeNo | Hall_hallName |
+-----+-----+-----+-----+-----+
| S590 | John   | Doe    | 305    | G305    | Gryffindor    |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

```

- f. Display the minimum, maximum, and average monthly rent for rooms of each hall of residence, order by hall names.

```

SELECT Hall_hallName, min(monthlyRate), max(monthlyRate), avg(monthlyRate)
FROM room
WHERE Hall_hallName IS NOT NULL
GROUP BY Hall_hallName
ORDER BY Hall_hallName;

```

```

+-----+-----+-----+-----+
| Hall_hallName | min(monthlyRate) | max(monthlyRate) | avg(monthlyRate) |
+-----+-----+-----+-----+
| Gryffindor    | 100              | 200              | 133.3333         |
| Hufflepuff    | 100              | 150              | 137.5000         |
| Ravenclaw     | 120              | 150              | 130.0000         |
| Slytherin     | 200              | 300              | 233.3333         |
+-----+-----+-----+-----+
4 rows in set (0.02 sec)

```

- g. Produce a report of unpaid invoices.

```

SELECT * from invoice
WHERE paymentDate IS NULL;

```

invoiceNo	Student_s_no	Contract_contractNo	issueDate	semester	paymentDue	paymentDate	paymentMethod	firstReminder	secondReminder
1108645819	S590	103523	2019-02-05	2	1000	NULL	NULL	2018-02-20	2018-02-25

1 row in set (0.00 sec)

h. List the students whose payment method is cash.

```
SELECT * from invoice
WHERE paymentMethod = "Cash";
```

invoiceNo	Student_s_no	Contract_contractNo	issueDate	semester	paymentDue	paymentDate	paymentMethod	firstReminder	secondReminder
1009461218	S328	101176	2018-07-05	3	300	2018-07-21	Cash	2018-07-15	2018-07-20
1074121216	S902	102863	2019-02-05	2	550	2019-02-10	Cash	NULL	NULL

2 rows in set (0.00 sec)

i. What's the total income from all paid invoices so far for the current academic year (September 2018- August 2019)?

```
SELECT SUM(paymentDue)
FROM invoice
WHERE issueDate >= "2018-09-01"
AND issueDate <= "2019-08-31"
AND paymentDate IS NOT NULL;
```

SUM(paymentDue)
3300

1 row in set (0.00 sec)

j. Present a report of students that have paid their invoices within 10 days of the invoice being issues.

```
SELECT s_no, f_name, l_name, invoiceNo, Contract_contractNo, issueDate, paymentDate
FROM student, invoice
WHERE s_no = invoice.Student_s_no
AND DATEDIFF (paymentDate, issueDate) < 10;
```

s_no	f_name	l_name	invoiceNo	Contract_contractNo	issueDate	paymentDate
S287	San	Zhang	1032549682	102653	2018-09-05	2018-09-14
S902	Eduardo	Saverin	1065236521	102863	2018-09-05	2018-09-10
S902	Eduardo	Saverin	1074121216	102863	2019-02-05	2019-02-10

3 rows in set (0.00 sec)