**IIT tutorial week 10**

**Database**

**Work 1**

SELECT propertyNo, street, city, rent

FROM PropertyForRent WHERE city = 'Glasgow' AND rent < 500;

|  |  |  |  |
| --- | --- | --- | --- |
| PG16 | 5 Novar Dr | Glasgow | 450 |
| PG36 | 2 Manor Rd | Glasgow | 375 |
| PG4 | 6 Lawrence St | Glasgow | 350 |

**Work 2**

SELECT staffNo, fName, Lname, oPosition,salary

FROM staff

WHERE salary BETWEEN 20000 AND 300000;

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SG5 | Susan | Brand | Manager | 24000 |
| SL21 | John | White | Manager | 30000 |

**WORK 3**

SELECT staffNo, fName, Lname, salary

FROM Staff

ORDER BY salary DESC

|  |  |  |  |
| --- | --- | --- | --- |
| SL21 | John | White | 30000 |
| SG5 | Susan | Brand | 24000 |
| SG14 | David | Ford | 18000 |
| SG37 | Ann | Beech | 12000 |
| SA9 | Mary | Howe | 9000 |
| SL41 | Julie | Lee | 9000 |

**Work 4**

**Challenge 12: use MIN, MAX, AVG**

SELECT MIN(salary)AS myMIN, MAX(salary)AS myMax, AVG(salary)AS myAvg

FROM Staff;

|  |  |  |
| --- | --- | --- |
| 9000 | 30000 | 17000.0 |

**Work 5**

**Challenge 13: Use of GROUP BY**

SELECT branchNo,COUNT(staffNo)AS myCount,SUM (salary)AS mysum

FROM Staff

GROUP BY branchNo

ORDER BY branchNo;

|  |  |  |
| --- | --- | --- |
| B003 | 3 | 54000 |
| B005 | 2 | 39000 |
| B007 | 1 | 9000 |

**Work 6**

**CHALLENGE 14: Use of Having**

SELECT branchNo,COUNT(staffNo)AS myCount,SUM (salary)AS mysum

FROM Staff

GROUP BY branchNo

HAVING COUNT(staffNo)>1

ORDER BY branchno;

|  |  |  |
| --- | --- | --- |
| B003 | 3 | 54000 |
| B005 | 2 | 39000 |

**Work 7**

SELECT c.ClientNo, fName, lName, propertyNo, comments

FROM Client c, Viewing V

WHERE c.clientNo = v.clientNo;

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CR56 | Aline | Stewart | PA14 | too small |
| CR56 | Aline | Stewart | PG36 |  |
| CR56 | Aline | Stewart | PG4 |  |
| CR62 | Mary | Tregar | PA14 | no dining room |
| CR76 | John | Kay | PG4 | too --ote |