作业四

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第一题答案为：

SELECT NAME,**COUNT**(EMP\_NAME)

FROM(

SELECT **CONCAT**(LAST\_NAME,FIRST\_NAME) AS EMP\_NAME, NAME

FROM department NATURAL LEFT OUTER JOIN employee) AS t

GROUP BY NAME

第二题答案为：

SELECT TXN\_ID,TELLER\_EMP\_ID,OPEN\_EMP\_ID

FROM acc\_transaction JOIN account USING(ACCOUNT\_ID)

第三题答案为：

SELECT **CONCAT**(LAST\_NAME,FIRST\_NAME),TITLE,TIMESTAMPDIFF(**YEAR**, START\_DATE, CURDATE())

FROM officer JOIN customer USING(CUST\_ID)

WHERE CITY="上海市"

第四题答案为：

CREATE DEFINER=`root`@`localhost` FUNCTION `getPrevious`(cid VARCHAR(50)) RETURNS varchar(50) CHARSET utf8mb4 COLLATE utf8mb4\_general\_ci

BEGIN

DECLARE result VARCHAR(50);

DECLARE pretemp VARCHAR(50);

SET result = '';

SET pretemp = cid;

WHILE pretemp IS NOT NULL DO

IF result = '' THEN

SET result = **CONCAT**(pretemp,result);

ELSE

SET result = **CONCAT**(pretemp, ' & ',result);

END IF;

SELECT GROUP\_CONCAT(P\_ID) INTO pretemp

FROM course

WHERE FIND\_IN\_SET(C\_ID, pretemp) > 0;

END WHILE;

RETURN result;

END

第五题答案为：

CREATE DEFINER=`root`@`localhost` FUNCTION `getNext`(cid VARCHAR(100)) RETURNS varchar(100) CHARSET utf8mb4 COLLATE utf8mb4\_general\_ci

BEGIN

DECLARE result VARCHAR(100);

DECLARE nexttemp VARCHAR(100);

SET result = '';

SET nexttemp = cid;

WHILE nexttemp IS NOT NULL DO

IF result='' THEN

SET result = **CONCAT**(result, nexttemp);

ELSE

SET result = **CONCAT**(result, ' , ', nexttemp);

END IF;

SELECT GROUP\_CONCAT(C\_ID) INTO nexttemp

FROM course

WHERE FIND\_IN\_SET(P\_ID, nexttemp) > 0;

END WHILE;

RETURN result;

END

第六题答案为：

CREATE VIEW v\_getEmpHeadOffice AS

SELECT

`employee`.`FIRST\_NAME` AS `FIRST\_NAME`,

`employee`.`LAST\_NAME` AS `LAST\_NAME`,

`employee`.`START\_DATE` AS `START\_DATE`,

`employee`.`TITLE` AS `TITLE`,

`employee`.`ASSIGNED\_BRANCH\_ID` AS `ASSIGNED\_BRANCH\_ID`,

`employee`.`DEPT\_ID` AS `DEPT\_ID`,

`employee`.`SUPERIOR\_EMP\_ID` AS `SUPERIOR\_EMP\_ID`

FROM

`employee`

WHERE

( `employee`.`ASSIGNED\_BRANCH\_ID` = 1 )

WITH CHECK OPTION;

不能成功，因为插入的数据中ASSIGNED\_BRANCH\_ID为2，不满足限制条件，插入后不能通过视图看到修改后的数据。

第七题答案为：

CREATE VIEW v\_getCustbyProCount AS

SELECT CUST\_ID,**COUNT**(PRODUCT\_CD) AS CountAcc,**SUM**(AVAIL\_BALANCE) AS Sum\_Avail\_Balance,**AVG**(AVAIL\_BALANCE) AS Avg\_Avail\_Balance

FROM account

GROUP BY CUST\_ID

HAVING **COUNT**(PRODUCT\_CD)>2;

第八题答案为：

CREATE DEFINER=`root`@`localhost` PROCEDURE `getEmpInfobyDept`(IN dept int)

BEGIN

(SELECT e1.EMP\_ID,**CONCAT**(e1.LAST\_NAME,e1.FIRST\_NAME),e1.START\_DATE,e1.TITLE,b.NAME,**CONCAT**(e2.LAST\_NAME,e2.FIRST\_NAME)

FROM employee as e1,branch as b,employee as e2

WHERE e1.DEPT\_ID=dept AND e1.ASSIGNED\_BRANCH\_ID=b.BRANCH\_ID AND (e1.SUPERIOR\_EMP\_ID=e2.EMP\_ID)

)UNION(

SELECT e1.EMP\_ID,**CONCAT**(e1.LAST\_NAME,e1.FIRST\_NAME),e1.START\_DATE,e1.TITLE,b.NAME,NULL

FROM employee as e1,branch as b

WHERE e1.DEPT\_ID=dept AND e1.ASSIGNED\_BRANCH\_ID=b.BRANCH\_ID AND **ISNULL**(e1.SUPERIOR\_EMP\_ID));

END